



# Are **consoles** being left behind?

Activision's *Battlezone* represents the state of the art in PC games: multiplayer, high-res, and 3D-accelerated.

Consoles have their resolution limited by outdated television hardware. All console network efforts to date, from X-Band to NetLink, have been failures. And the 3D capabilities of consoles pale next to the increasingly cheap 3D horsepower offered by 3Dfx and others.

But the balance of power has always shifted to PCs as a given generation of consoles ages. Is the current situation any different? Should the next generation of consoles attempt to compete on the PCs turf, with online and non-game functionality? Or should console makers continue to do what they know best — advance technology as far as they can with each successive generation, in the belief that low hardware cost and quality software will sell units? Next Generation discusses the future of the console with executives at Sony, Sega, and Nintendo on page 50.



# Welcome to Oddworld.

In a world run by meat barons and corporate scum, your entire race is pie filling.

Escape from the daily grind and seek your destiny. Savior. Or salami.

Sound Odd? Welcome to Oddworld.







GW.

In a dog-eat-dog world where escape is your only option, your ride wants you off his back.

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# October 1997

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415 468 4664 walce 415 468 4665 fix nganlinestragina inc com email

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Cover Story: Battlezone

Activision is resurrecting a classic title. But more importantly, the company seems to have found the secret formula for combining action with strategy. Add an excellent storyline and the company may have the hit of '98 on its hands



Is 3Dfx here to stay?

With its outstanding Voodoo graphics chipset, 3Dtx captured the 3D accelerator market's early mindshare. But, given the competition in the 3D hardware space, does 30th have what it takes to still be around in the next generation?



The future of consoles Top executives from the U.S. branches of Sony, Sega, and Nintendo srt down together to discuss the future of the console



The great escape Major talents, from programmers to presidents, are leaving established developers to start new ones, is something amiss?



Finding companionship in a digital age

From the Tamerotichs to Norms, the latest in this pets exist outsity within silicon chars — most even fit in your pocket. Next Generation looks at the fad and wonders what it all means

October















3Dfx Next Generation talks to the company that first got the industry excited about 30 accelerators, and what it's doing to stay ahead

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A screen-shot only begins to illustrate the true worth of a game

s always, the Next Generation Disc delivers on its promise to provide users h the best coverage possible. This month you'll visit LucasArts, Electronic Arts, and experience part two of an NG Disc exclusive interview with Nintendo of America's Howard

Lincoln. Our extensive game movie coveras pushes Metal Gear Solid, Jedi Knight, Tomb Rayder 2. Ghost in the Shell and more than 50 movies to the forefront - all at double the size you'd see on the Internet In addition, be sure to explore the Finals

reviews database. Search the database freely for any and all reviews Next Generation has published since our launch in January, 1995. This month we've added the "Find All 5 Star Games" function - exposing the mere 5% of all reviews receiving Next Generation's highest accolades.

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talking Nintendo of America's Howard Lincoln

waxes eloquent in this NG Disc exclusive

special Jedi Knight, Road Rash 3D. Hexen II, Raider Star Wars Rebellion. I-War Monkey Hero Ghost in the Shell

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A searchable database of more than 1,200 MG routeur

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mac Sentinets of Ceth. Burning Rubber 1.2.3, Links LS,

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Force feedback edds the sense of touch to supported games so you can actually feel the game. But a force feedback joystick isn't worth a dusty Pong if the stick is pulling processing power from your computer and slowing down your game. That's why the Microsoft® SideWinder® Force Feedback Pro has a 25MHz 16-bit "force co-processor" that does all the force computation on the stick. Which means your computer feels nothing, end your gemes are never

slowed down. Force Feedback Pro is es

much as six times faster then

other force sticks. So you'll

The stick is also easily customizable, so in lust a few seconds you can program each

> button the way you like to play And forget por

hogging. Force Feedback Pro has only one computer cable and plugs into your gameport.

Plus, you can test all these feetures right away with the three killer games Included in the box: Interstate '76" Star Wars\* Shadows of the Empire:"

# You'll feel it. Your comput

see and feel every Uzl recoil, every stell on take-off from O'Here. and every nine-Iron you shank to

the left. There's elso real rocket-science stuff inside the Force Feedback Pro. Like

Microsoft-patented digital-optical ter Imagine a tiny infrared camera that detects

handle and throttle motion to within onehundredth of a degree without any weer or celibration

MDK: Mission Laguna Beech." The Microsoft SideWinder Force Feedback Pro. It's

Battle of Hoth, end

won't.

designed so that everything in your game

will be felt. But only by you. For more information (yes,

believe it or not, there is more), go to

# Microsoft .....





MAGE DANIELS



IN A GAME WHERE JUST ABOUT ANYTHING CAN BECOME A WEAPON, IT'S NICE TO KNOW YOU CAN STILL FIND A GOOD OL' BAZOOKA.

HERE, THE INNER CITY STREETS ARE LITTERED WITH WEAPONS OF ALL SORTS. SOME OF YOUR OWN MAKING.

OTHERS READY-MADE AND BANNED IN MOST STATES

ALL PROVIDE ENDLESS HOURS OF EXPLOSIONS, GUNFIRE, AND MISERY
OF THE HIGHEST QUALITY.
NO WONDER THIS CITY NEVER SLEEPS.









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3Dfx is arguably the hottest game technology company in the country. Its chips (the company makes no retail products) power numerous PC 3D accelerators, and if there is ever to be a 3D standard, 3Dfx is on the short list of candidates. Next Generation recently took a trip to the company's Milipitas, California, HQ to talk about 3Dfx's advances, setbacks, and future. In short, we want to know:

# Is 3DfX here to stay?

It is a purely has the most powerful consumer be very 30 occentance on the mainst today, the condocration of the mainst today, the condocration of the 30 behaviour market, from accodes to consoles. But the company's deal with Sega recently or through and with the 15 gatters plenty of early mistrature and priess (like this interview), the company or still providing droughly for all off to bottom. —nor we spoke to thing the still provided provided to the spoke to the spoke of the spoke of the We spoke to thing the still provided provided with the spoke of the spoke of the spoke of founders sout selfers, We of research and development, and day hardly Ve and chief scientist.

The Sega deal

NG: You were working with Sega to provide the 3D hardware for Black Belt, Sega's next generation system. They've since ended that contract unilaterally Why did the Sega deal fall through?

Greg stallard. To the extent to which we understand what happened, we are still under non-disolosure. [Laughs] it turns out that the one thing that survives the termination of your contract is the mailily to talk about why it was terminated, which is unfortunate. From what we understand, however, and twent to be ency, very clear about this, what we've been told quilte.

brainly by signs is that the deal falling through) had nothing to do with our performance either technically, or in terms of meeting missectores, it had nothing to do with the cost of the system. I that onlines to do with the cost of the system. I that onlines to do with the cost of the system is that onlines to do with the critical technical t

point.

NG: Obviously 3Dfx is still figuring out what its next
step is going to be following the termination of the

extracted from them their intellectual property, and then took that intellectual property and did something with it. Sometimes it's good and sometimes it's bad. NG: So are you worried that your trade secrets may end up in the hands of a competitor?

Greg. We've told Sega that we will not tolerate under any circumstances the use of our intellectual property. NG: Is that it for 3Dfx and consoles? Is your console

strategy finished? Greg. For all Intents and purposes, i'd suspect that that is the case for the next generation of consoles. We will undoubtedly talk to a number of other companies who are engaged in this area, but my suspicion is that most of Sega's competitors in the console business right now have already chosen their own 3D solution for their next generation, and that solution is probably fairly well developed by now. So while we might have those discussions, we're certainly not much expecting

to find the companies willing to switch, and we understand that. Still, there are inevitably a lot of apportunities down the line.

## The origins of 3Dfx

NG: The Voodoo chipset was originally intended for use in high-end PC workstations, not for consumer use. How did we end up running games on Voodoo? Scott Sellers: Gary, myself, and the other founder, Ross Smith, are all from Silicon Graphics originally. And there we were introduced to what the power of silicon dedicated to graphics rendering could actually do. I think all of us there were fairly blown away by the Reality Engine. It was the first realtime image generator where you could take a step back and said, "Wow, I can't believe this computer is doing this." And at that time, costing over \$100,000, it was not even close to being a consumer product. Gary and I joined a small start-up company which was subsequently acquired by MediaVision, the sound card company. Then MediaVision went down the tubes. At the end of our stint at MediaVision, though, we started looking again towards realtime 3D rendering for the PC, and Gary started to look at a lot of algorithmic advances that allowed us to do Reality Engine quality - features that actually exceeded what Reality was capable of doing

talking

- all at prices that would be able to hit the consumer market NG. But your first vision wasn't to do the Voodoo

chipset as a pure consumer device?

Scott. One of the things that Ross brought to the founding team was a clear decision that we did not want to enter into a commodity-like business immediately, like the 2D acceleration business, even though we knew how to do that. We wanted to focus on pure value. We looked at the market that would pay for pure value in 3D. The arcade market was the number one opportunity. But we also realized early on that hardware without supporting software and titles to take advantage of it was essentially useless. And even though everyone has talked about it, we were the first to make the connection going from the arcade to the home with the same underlying hardware. That was going to be an extremely powerful proposition for

# Hardware without supporting software to take advantage of it is essentially useless

And so the whole business concept was evolved to enable us to get to be a third-party supplier to the arcade business of incredibly powerful 3D technology The first generation chipset was directed at the PC, but it was expected to be at a higher price point than we've now gotten to. We've been able to get to the lower price because of declining memory prices. So what used to be a \$299 or \$399 product is now pretty close to \$140 or \$150.

Gary Tarolli: it was sort of fortuitous that MediaVision didn't work out, because it gave us the opportunity to found 3Dfx. And it was really an opportune time because we founded the company at probably the perfect time for bringing 3D graphics to the PC. If it had been a couple of years earlier, it would have been too early. If it had been a couple of years later, it would have been too late

# Add-ons vs. the motherboard

NG. The add-on 3D board market is very big right now, as gamers are first getting a taste of 3D, but it won't stay there. There're already some 3D chips on motherboards, but not 30fx. When will that happen? Greg. One of the things we've done is raise the bar on 3D performance. And on the consumer side of 3D, if you're getting 3D, it should be the best 3D, because no one wants 3D that doesn't perform well. One of the things we think it going to happen is that by setting a high standard for games, it's going to pull up the consumer's expectations of performance to the level we can do. And because we price our technology at a very competitive rate, there's no reason to have anything but the best - a Cadillac at Ford prices. And that strategy will allow us to play in the motherboard business as well as the add-on business

NG: It's really great to see that 3Dfx is geared to the gamer, but when a developer sees that ATI has sold millions of units by being on the motherboard, why develop specially for 3Dfx using GLIde? It may have

better performance, but the numbers —
Greg. You do both. A developer wants to have, has to
have, in a competitive environment, the best-looking
titles the can get. You don't want to just have a title
80% as good as it could be because your competitors
are all going to be at 100%. Look at consumers who
have a 50% board whom we believe are hard-core
gumens, the once shirtly all business right now. They

# It has taken our competition 14 months to even catch up with us

Greg Balland, provident and CEO

vant committing that book 1000. They're going is grown the suffill they of 500 km / you look to the guyen the suffill they of 500 km / you look to the guyen who are buying the boards, All no inderwise, thus a generally considered have been performance, they're seprentify not have been performance, they're seprentify not have been performance, they're seprentify not have been been been performed to the second product the second performance in the second per

Scott: The question isn't, "What's your installed base?" That's the incorrect question. The question for a game developer is. How many potential qualified buyers are there?" And it doesn't matter if 20 million people have one of our competent's chips, how many of those people are hard-core gament? How many of those gamens are buying gamen?



guarante Int. 100% of 35% coveres are buying garante from by a bit of garan, and they gound as lot of money or garant. And the sanithers are abstantial enough energy and among country, are set of willing to conside that there will be a high-performance drap out or first or correspond to leving either to will, so if it is no correspond to leving either to white parts are considerable and the set of the parts considerable and the set of the parts considerable and the set of the parts compare deficiently and successfully, so almost the premise of the question has to be. Will someone be even also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to pagnously one performance and set more sever also to perform and the performance of the performance and the performance of the performance performance and the performance of the performance performance of the performan

And now your competitors in that space are catching up, intel says the Aubum will offer 30th-level performance — Garry: — of the first seneration of our hardware. Not

the forthcoming stuff.

MKS 5 you're swipe it's going to be a leap-fing game?

Greg, That's exactly right, it has taken the industry—
our competitors—— all months to even contict up with
us, and within several months we'll be leaping alhead of
them again. That's what happers when you have a
year-to-1-k-month lead on the industry, And we think
our next leap will be an improvement of an order of
magnitude in the technology.

MKS. An order of magnitude?

Greg: That's a phrase I always use. (Laughs) Substantially greater performance.

# The competition

NG: Let's look at your competitors. Your beggest competitor, performance-wise right now, is Power VR. Power VR has NEC's backing and a lot of cash - a lot of cash for marketing and a lot of cash for developer support. Can 3Dfx rely merely on its current momentum, its current mindshare to keep it in front? Greg We have a lot of respect for Power VR's competitive strength in the marketplace, as well as others. What we do is try to do our jobs as best we can, and focus on providing the best technology, focus on working effectively with the development community, and making sure that the message gets out there. That's all we can do. And so far, we have been successful in creating support at the developer level and at the consumer level, which has given us that momentum. And that's a momentum that Power VR has not been able to attain in spite of its spending tons more money in the marketplace than we have. We haven't had to pay developers to produce products that are 3Dfx-optimized, and a number of our competitors have had to. So what we plan to do is to continue to produce great technology, continue to listen to the marketplace, both to developers and consumers, and make sure that we're operating

effectively as a company, We think that in the end that's going to work for us.

Gary I think the big difference is that Prover VP has an interesting enrichecture, no cloud's about it but the interesting enrichecture, no cloud's about it but the big checks to because they're difficult to develop for one of the reasons that we've been a souscessful as getting companies to use 30% as a development, and the companies to use 30% as a development and the very companies to use 30% as a development and the very companies to use 30% as a development and the very companies to use 30% as a development grave and very companies to use 30% as a development grave and very companies of the companies of the very companies of the ver

experience writing things for 3Dfx. Power VR is a whole

NEXT

different story entirely. It's much, much more difficult to optimize for, and there are significant differences in the architecture - it's not something they've been raised on So sure, with dollars, Power VR can get some titles. Look at Tomb Raider. But if you're a gamer, do you want to get hardware that your favorite titles come out on six months later? No way. [NEC] having to pay for every title is a losing proposition. There's no way that will work over time.

Greg: There are many ways to reward people for getting games to work on your hardware: There's money, support, developer support, there's having great hardware that makes their game look good. NG You've been widely praised for fast, smart, highquality developer support. But as more companies sign on to do games for 3Dfx, are you going to be able to

sustain that level of support?

Greg: Our commitment we have made to the development community is that we will continue to devote the resources necessary to support them in the way that they need to be supported. And just to emphasize that, if you walk around this building today you'll find a lot of people from the developer community. [Marketing Managor] Chris Kramer and I both come from that world. Our head of developer relations comes from that world. In fact, almost our entire marketing department came from parts of Capcom and elsewhere. We've really tried to create a company that is sympathetic to the developer community because it comes from the developer community. We're creating an environment that is joined at the hip to the gaming industry. And people have a natural attraction to this -- it's not like we have

to create a bonus system to make that happen. We will continue that level of support. Gary: We also have quite a following of hobbyist developers - a lot of university students and professionals working at home, programming for the fun of it, And they actually help themselves guite a bit. I monitor one of the newsgroups, the GLide programming one, a lot, and you see other people

answering questions. Scott. It's great to see. These are not game developers, they're hobbyists. The whole goal of our releasing our API GLIde publicly was to create a new standard, and that's exactly what's happened. University students, casual programmers - these people are not dedicated game developers. There's no way we can target these people directly because they're all over But this is the only way you can find the next id, the next sarage shop, But they're on the newsgroups, and there's no way our competitors can do this. They lithe competitors have to target the developer, then pay the developer to get a title, and just go through this incredibly laborious process. Greg. The problem with that model (paying developers to create games for the hardwarel, which I have talked

about when I talk to publishers, is that it makes the hardware company a publisher. And having been in that business, it's tough enough to be a publisher when you can devote all your attention to it and you control everything. You can start and stop projects, and you can move people around. When you are funding those projects from the outside, making bets on them with no control over the project, no control over the content, no control over the artwork, no control over the game programming, you are just a casual observer making bets on games, in the long run, that's a very very tough economic model, it's tough to be a

publisher. To be a publisher who just stands on the

sidelines throwing money at games is almost imnossible

Scott: One of the other strategies is to wait for a game to come out and be successful, and then port to it. As a gamer, I don't want that. Six months later I get the title? Who wants that?

# 3Dfx, a new platform?

NG You bring up the control issue and it's an interesting one. To a certain extent, maybe to a great extent, 3Dfx is being positioned as a new platform, distinct from a standard PC.

Greg. Absolutely. NG But there's a problem with that If 3Dfx is for using our logo

# We are loathe to create a set of standards

presenting itself as a separate platform, you don't have the same kind of control that a console manufacturer has over content, but with your loso, you're to some degree making a promise to the consumer. Someone can do a temble job and still get the logo on their box.

Greg. That's a topic that we have discussed internally. and I will say that it is still under discussion because we don't have a fast answer to that. We are loathe to create a set of standards for using our logo based on the quality of a same because that gets us into judging the publishers' works, and having been on the other side of the fence, having to go through the Sonw PlayStation process. I know how brutal that can be. And when you've invested a lot of money in a product. to suddenly be told at the end that that product doesn't meet certain standards is pretty devastating. financially as well as emotionally. We don't want to be in that business. Ultimately, the 30fx logo will tell people that they will get the best performance from that particular title. And then it's up to the people like



you to inform your readers as to what stuff is good and what stuff isn't, I actually think that the games press does a very good job of telling people what the very good games are. There may be some controversies over whether Quake is as good as Doom, but in the end you know what the big titles are, and the musthave titles. And typically, you know the ones that are really bad, for instance, Foxhunt, which I was

### NG: So what specific steps are you looking at taking to address this issue?

Greg: I wouldn't say we were looking at anything because that makes it sound like we have regular meetings where we are organizing a task force to come up with a stamp of quality for the 30fx. But it is something we have discussed. We don't want to have consumers misled simply because the product has the 30fx logo, and that automatically means the game is good. But all of our discussions have basically led us to the same place - we don't want to be in the business

of judging the quality of titles. We want to make it very clear that we are on one

# One of the things about the PC is there is freedom for anyone to publish a game

responsible for [Laughs]

side of the divide, and our clients or customers. partners, publishers, are on the other side of the divide. And we're here to provide great technology to them, they're here to design the very best games they can. We will play their games and we will enjoy their games and we will have higher opinions about what's good and what's not, but it's not our business to judge those games, it's not our business to decide what's good and what's not. And when you cross that line, it becomes a very subjective and divisive discussion between ourselves and publishers. And ultimately, that's not where we want to be in a relationship Gary: One of the good things about the PC market is

there is freedom for anyone to publish a game, I've **Gary Tarolli** 

even downloaded games from our hobbvists - very simple sames, just demos really. With the internet, anyone can publish games for hardware. You will get the bad ones with the good ones, but the PC market has survived for many years with a lot of good games and a lot of bad games. And the freedom of the PC market is something that is very enticing at this time and will continue. The disadvantage is that you get the bad along with the good. The advantage is that it is a free market and anyone can write a same.

NG: Let's go back to the whole concept of 30tx as a platform. Tell me why 30fx is a platform and not just a way of playing regular PC games with better graphics. Or does that make it a platform? Scott: I think that just by where we are right now, we

are certainly in multiple markets. We have three announced arcade same manufacturers, and more coming, Williams/Midway/Atari, Konami, and Talto. they're all coming. Certainly with the PC we almost consider ourselves a platform within that market because the PC is just too large. What we've told publishers is that you need to focus on a segment of the PC market. Don't worry about Virge. If you want a game that will be high performance and that people will actually search out to buy, go with 30tx, And then of course the Mac is a new market for us. And Glide. works across all of them. And at some point we'll be on a console. It's an interesting situation for developers that they can target all of those markets easily. And with very little software changes, they can have deployment in all those markets, it's a very different financial situation from when you wanted to go from the arcade into the home and you started with some artwork and some models and it was a complete rewrite. It's a totally different scenario now Greg: If you think back on the history of the PC, there are almost no examples of arcade games that have been successful titles on the PC. And the first inclination of people is to say that there is a certain style of gaming that can't be successful on the PC. I don't think that's really the case. I think that the PC, especially for Japanese arcade games, was the last step in a very laborious process of porting the game. The first step is always the console And even that was difficult because the game has to be dumbed down to get it on the next level of technology. One of the things that we offer now is the ability to take a same from the arcade and very quickly port it to the PC so that the time that passes from the arcade to the PC is significantly narrowed. When I was at Capcom, we were releasing on the PC Super Street Righter 2 at the same time we were releasing Street Fighter Alpha on the console. Now why in the world would a gamer so into a store and buy Super Street Righter 2 for the PC when they could get the most recent version of it on

3Dfx. If somebody wants to enjoy the most recent arcade game on a PC, they're going to have to have the For additional interview material, including comments on fabrication and OEM issues, see the September 12th "Special" section on Next Generation Online, http://www.next-generation.com

30tx chipset.

their console? And that disjunction between the PC and the arcade versions of games has always kept the PC from enjoying the popularity of those titles. We want to change that dynamic by allowing people to very quickly, and I should add very inexpensively, port a title from the arcade to the PC. And when those titles become available for the PC, they're optimized for





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full screen, full speed online gaming smack dish into your sweet little home. When you're drier kicking long distance but, suif the net, trade e-mail, or chat with others through the NetLink Browser\* And now you can score a Saturn NetLink with two bornus games for a piddiy \$59°°. Remember, someone, somewhere, wants to take you out. Get them first.

Stops is required in the U.S. Patret and Trademark Often. Stops Sottam, Sop Robb, Companional Visial Court Installation Statemark of Sop Installation (South Received Installation Installa



Power VR's Highlander: PC polygon power gets faster and cheaper . Hyper Neo Geo 64: SNK finally goes 3D, but do the specs impress? • Virtua Fighter 3 TB; Yu Suzuki adds even more to a modern classic • Retroview: A new column debuts - this month, the lowdown on one reason the Atari 2600 died . Plus: All the usual columns and more

Gaming news as it happens

# **Power VR** prepares Highlander

Details of new chipset, and its ties to Sega's new console, revealed





generation chipset Over the past several months

developers have been approached by Power VR about its new chipset. currently called "the Hishlander Project," Highlander will be a single chip 2D/3D integrated solution. Also known as the PMX, the Highlander hardware is said to boast at least a fivefold increase in performance over the currently available PCX2based Power VR hardware. Current estimates of fill rate put performance at well over 75Mpxels per second white still offering a host

of new hardware features Among the new features supported by the hardware are bump mapping, edge anti-alasing, anisotropic filtering, biand tn-linear filtening, specular highlighting, and texture conversion.

According to sources close to the development of Sega's next console, it will be powered by the extremely powerful Hitachi SH-4 CPU. Indeed, new information has indicated that two SH-4s may be used to boost performance, similar to the dual CPU setup of Saturn. Such a design would work well with the Highlander hardware given the



Power VR's new 3D ecceleration technology is rumored to be five times more powerful then its lest

hardware's reliance upon the CPU for triangle setup, At the same time, the use of higher level APIs from Microsoft and Power VR should make relatively efficient use of scheduled to begin soon Black Belt's dual CPU configuration - unlike Saturn, which was

notoriously difficult to program for In terms of applications within the PC market, the Highlander hardware is completely Talisman full Sega development kits are and AGP-compatible, and allows for shipped early next year up to 32MB of onboard memory depending on desired performance from card or motherboard manufacturers. It will also offer

OpenGL compliance, in addition to MPEG2 and DVD assist capabilities. Arcade tests using the new hardware (or a slightly scaled-up version thereoft are rumored to be under way at various developers with full public tests of some titles (mostly those used in the Intel Open Arcade Architecture Forum)

While many PC developers already have kits and tools for development, console developers have been instructed to begin working with the PC kits until the

These chips will first be seen in PC products at some point in the first quarter of 1998 at prices similar to existing PCX2-based boards (roughly \$140), Sega will allegedly be using some derivative of the hardware for its next system when it ships in Japan around Christmas of 1998.





# **Hyper** Neo Geo 64

# One of the biggest names in the arcades finally tries to get real

n the fiercely competitive Japanese arcade industry, conventional wisdom has always held that central Tokyo is the best place to test new arcade games So when SNK held a private show there at the Hotel New Otani, few were surprised.

After hanging on to its 2D, sprite-based fighting engines even longer than Capcom, SNK used the show to introduce its Hyper Neo Geo 64 board, its first step into 3D gameplay. Yet, it was clear that

Hyper Neo Geo 64, hampered by SNK's stubborn insistence that the board retain some 2D capability. doesn't measure up to its direct. competitors: Sega's Model 3 and

Konami's Cobra. The game that best showcased the new board's capabilities, Samurai Spirits 64 (aka Samurai Shodown in the U.S.) showed just how green SNK is in the 3D venue While 5S64 was only 40% complete, with an expected

street date of only a month or so away, it already displayed troubling signs - only exacerbated by SNK representatives' reluctance to allow the public to actually play

and instead have to rely on official demonstrations Textures were crude, with much evident pixelization, leaving SS64's roster of fighters looking.

nowhere near as impressive as VF3, or even as solid as Mace. Samurai Spirits 64 showed just how green SNK is in the 3D venue

> However, despite these shortcomings, the game is not without potential, although even here there is a strong caveat. In an ambitious move, SS64 is the first arcade fighting game to attempt a fully 3D world, giving characters the ability to move in all directions. Players can circle each other and perform attacks from any angle, somewhat reminiscent of Battle Arena Toshinden, but more

However, it's important to note that after much research and testing, this approach was abandoned as too complex by Yu

Suzuki and the VF3 team and replaced with the current, simpler escape mode. If 3D fighting moneers at AM2 doubt such a system's feasibility, the relative neophytes (to pardon the pun) at SNX have chosen an especially

difficult method to set themselves apart from the rest Indeed SNCs motivation for not

allowing any hands-on play at the show may have been hestation that such a system would be dismissed out of

hand by an audience unable to gain sufficient practice to master its intricacies. it may well be that such a

system, while innovative, could end up like many well-intentioned new forays; merely noteworthy, not extraordinary The proof will be in the playing

# Tech Specs

CPU: 64 Nts RISC tax memory, maximum 96Mi

lplayed sprites; 1,556 sprite frame (refreshment s/60s) racter memory, max, 125 MA in functions: scaling (enlarge, reduce), chain, revoluti

Scrollier screens: 4 ma aracter memory: 64M8

rs 16.7 million





It is ...

E.T., from Atari, for the 2600, by

# **PlayStation**

# gets surrounded

3D sound is coming for Sony PlayStation

eaching the goal of total immersion in video and computer games requires fully 3D surround sound, but that goal has always remained somewhat elusive. Experiments with a process called Q-Sound in the early '90s seemed promising enough that Nintendo actually licensed the process, as did others outside the industry (Madonna even tried using it). Eventually, technical problems, including an overly picky sweet spot (so if the listener wasn't positioned in exactly the right place between the speakers, it didn't work at

However, as reported in Next Generation a few months ago, recent attempts based on acoustic research of how the human ear perceives the direction sound comes from have enjoyed much more success One, developed by Aureal, went into production as a DSP in Diamond's recent Monster Sound PC card, Soon,

all), forced the process to be

abandoned

PlayStation owners can enjoy a similar process, dubbed X-360 Sound, developed by Advanced Digital Systems Group (ADSG). The X-360 process resides

entirely in software - no additional hardware is required - and breaks the usual twotrack stereo signal into nine virtual channels: left, left center, right, center, right center, right, left surround, right surround, and Boom (the sub-woofer channel). Each channel is layered with acoustical cues identical to those that indicate where sound comes from within the human ear. For a twospeaker setup ADSG recommends headphones for the best effect, and the results. are reportedly impressive Users

surround-sound systems can expect room-filling results X-360 Sound can be programmed noninteractively that is, programmed out ahead of time for use in cut scenes, for example, in fact, ADSG spends

who own PlayStations already

connected to five-speaker

most of its time developing motion-picture-sound technology. However, most game developers would be more interested in the interactive features, which enable on-thefly sound effects and full realtime control of the sonic

environment

Data Stream

Currently, X-360 Sound must be licensed separately from the usual suite of PlayStation code libraries, and at this early date only one title has been announced that will take advantage of it: Sony's own CART World Series This Formula 1 racing game doesn't seem to he the ideal showcase for an interactive 3D sound process, especially given the approving nuasi-metal soundtrack that saddled the beta seen by Next Generation However if a player could clearly hear the sound of an opponent's car approaching, pulling up fast from behind and off to the left. that would make for an interesting new wrinkle indeed. and also help differentiate CART from the glut of racing games

for the system. The simple fact that X-360 Sound is a software-based product also brings up the Interesting possibility of X-360 - or, more tikely, a similar process, since Sony has the X-360 locked in for PlayStation becoming increasingly standard in most game development since it's hardware-independent. Whatever the future holds however, PlayStation owners at least can expect more immersive sonic landscapes in the months and years to



tion games starting this fall. More titles will sup

At the same time however the creator of Populous and Dynaeon Keeper has outlined how desperate the situation became between him and Electronic Arts during his last

days at Bulfrog Molyneux sold Builfrog to EA in January '96 for a sum thought to be around \$40 million. Soon, however, he began to hint that he was feeling stifled by the newly imposed corporate responsibility in July he confirmed that he was going to quit the firm and start up a new independent, LionHead. Now Molyneux reveals the gory details of the breakdown in his relationship with EA: "From day one I went from being involved in Builfrog day and right to having to go to an awful lot of meetings. I

quickly got further and further away from what I'm good at - designing "Then, in May '95, they said to me, You've got to ship Duniteon

# Molyneux returns to EA

Despite an acrimonious relationship at Bullfrog. Peter Molyneux signs up again with EA

Keeper in six and a half weeks." The game wasn't six months into its development cycle at this point and I said, 'No way' They said, 'You're a member of the EA family, we need the product, you've got to do it."

Twas sturned, dumbfounded. This was exactly the sort of thing that they'd promised faithfully would never happen. Because I wasn't prepared to sacrifice DK, I wrote and designed a same from scratch in six weeks: He-Octane, But the whole encode was a sturning. shocking temble realization that, in fact, we didn't have that much control anymore."

Molyneux decided he wanted to leave soon after that and

completed DK in what he describes as "an extremely unpleasant atmosphere - a nightmansh situation." He says that at one point EA even tried to cancel the game. Despite the obvious acrimony

however. Molyneux has signed the nights of Lightead's first product over to his former paymaster. He explains. "You can't deny EA has por the best worldwide distribution .. they've got an awful lot of power. They do things right and

when they're behind a product. they're really behind a product. You can't help but admire their professionalism. You've got to go for the most financially sound and professional company And in a sea of publishers rumored to be in trouble. EA is the soundest

strp of all." LipnHead's first, as yet unnamed, project is scheduled to appear on the PC in the first quarter of 1999 and will be followed closely





# M2 just not good enough

Panasonic explains its decision to cancel M2 gaming console and predicts technological super age went on to reference a point in the

official that the M2 technology was not going to be released as the same console many were expecting. Panasonic Wondertainment President Nobuhiro Shibata recently spent some time explaining the decision. At the heart of the reasoning was Panasonic's belief that while the M2 would have surpassed any console on the market, it would not have provided the revolutionary jump he had hoped it would: He

fter finally making it

future of technology, which he referred to as the Digital Contents Big Bang, in which the time would be right to create a machine like the intended M2 At the same time. Shibata was quick to assert that Panasonic has not deserted the technology and will be implementing it in several applications, including everything

from office use to industrial design. in explaining the Digital Contents Big Bang, Shibata

described a machine that would possess a better than 64-bit processor (the standard the proposed M2 was to be based upon). Also included in his explanation was talk of extensive networking possibilities. He rounded out his description of this upcoming technological age by insisting that this century was still due to see a neak in computer graphics and that this machine

would play a major role. As for what's in store for current M2 software such as Warp's D2, a massive project that was near completion when the hardware was canceled. Panasonic applopized to the development teams but insisted that the software would be used as demonstration material for the M2 technology. It's doubtful that this is

much consolation to developers who had hoped to actually release their games to the public, but most will probably find alternative hardware for their games.



# Otaku calling

At JAFCON 6. traditional otaku merchandise took a backseat to the latest offerings from the game world

Everyone goes home happy

there was an even more obsessive

feel. Snuggling between big names

like Seas, Bandai, and Takara were

models by hand, and produce them

as very limited editions. As a result,

exhibitors who make their own

many otaku lined up outside all

night incredibly many exhibitors

displayed "sold out" sizes after just

30 minutes, spending the rest of the

day answering questions posed by

For the big companies

attending JAFCON, the event was

comic/videogame-related trinkets,

but also to learn what trends are

masses over the coming months. Bandai, for example, learned the

unfortunate lesson that it is no

longer flavor of the month - its

previously popular Dragon Ball,

Power Ranger, and Sallor Moon

characters were distinctly out of

favor, with only a few nostalgic fans

an opportunity not only to sell their

likely to filter down to the non-otaku

masses of adorine tans.



though events like the Tokyo Game Show attract their fair share of obsessive videoxame, anime, and manga otaku, it is JAPCON (Japanese Fantastic Convention) that brings them all out

This intense, one-day event. held every July in Tokyo, is essentially the Japanese equivalent of a sci-fi convention. Thousands of fans turn up to talk about their favorite characters, and thousands of exhibitors turn up to sell them ittle models and souvenirs of those characters for excriptant prices.







Typical JAFCON fare, from top. Cel-phone/repilca gun, kids in character sas, and limited edition Evangelion merchans

exhibiting models At this year's JAFCON, though,

It was left to Sega to become the toast of the event, exhibiting for the first time and showing a range of Evangelon, Fighting Vipers, and Sakura characters as well as the odd Sonic figurine, it was this videogame-related paraphemalia that flourished at the show mostly at the expense of exhibitors (including Bandai) showing off regular scale models inspired by

anime and manya themes. To add insult to injury, the only Bandar products that matched Sega's in popularity were its Gundam models - and mostly because those characters have

been in some recent Saturn games. As usual, there was a large "cosplay" element, with many otaku making appearances as their favorite characters, Interestingly, manazines dedicated to cosplay are appearing at an alarming rate in Japan, while dedicated parties take place in Tokyo every

Gold Medal

fe Under Pressure

Coming This Fall













# Sega to enhance VF3

# Enhanced version soon to hit arcades

t a recent gamer's tournament in Japan, the Java Tea Battle Koshien. Writing Playheer creator Yu Suzuki announced that a new version of Writus Fighter 3 would soon be

hitting arcades The new version, called Virtua Flehter 3 TB, will feature a long list of enhancements, most important of which is a team hartle thence. the TB) mode - a feature included in home versions of previous VF titries but never in arcades VEXTR. will also include new fighting moves, tweaked character balance, and larger arenas. Finally,

the game is rumored to include at least one new character, though no details on what kind of character it may be were given at the tournament. With Suzuki already on record for having said

that he would not be working on Virtua Fighter 4, this update

may well serve as the last installment for the popular series, at least in the foreseeable future. No word has been given yet on when the game may find its way to U.S. arcades or whether the new version would be released in the U.S. at all

The announcement comes at a critical time in the lifespan of the game, since most gamers (especially the Japanese) fully expected to have a home version

of Virtue Fighter 3 by now, And with the recent announcement that there will be no Virtua Fighter. 3 for Saturn, this new arcade version will have to maintain interest in the senes until Sees's



Yu Suzuki may never do a new Virtus Fighter, but he's at least going to bless us with a special edition

next console is released. This is a tall order, considering the fact that Sega's next console. may not be out until the end of next year, but Virtua Fighter 3 will almost certainly be part of the launch strategy for the new system. It's likely too that a home version of the game, when it is released, will reflect the enhancements made in this latest version.

# n the

# **Studio**

# **Development** news as it develops

Developer Radical stertainment of Vancouves



is already involved in developing several titles and lanning to announce important new deals. Check this

meo has announced that Famistor 64 will be its first product for Nintendo 6a. As the next in the Japanese series of Fomistor baseball games, the game will feature lygonal players. Namco currently has no plans to ne this title to the U.S. At press time, the company had no comment on any further N64 development

est known for the Little Big Adventure (Relentiess and

used as the

are for the PC and the next Sens console. Sin Adeline was originally set up by Delphine software (of Roshbock and Fode to Block fame) some years ago,

Playmates has officially decided to port Shirry's PC hit shooter/adventure MDK. development for some time when the publishing deal was finalized in Autust

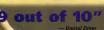
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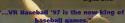
ated that Psygnosis (which is owned by Sony) has en approached by several publishers in regards to rated that at least one of the publishers interested in eal with T\*HQ regarding Saturn ports (which had nearly ten canned before their release), a Nintendo 64 ion of WipeOut will allegedly be published by an tside company. Also, Psygnosis may avoid direct development and instead merely license out the name and code for the game, sources said. The company has vet to publicly announce any plans for Nintendo 64

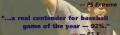


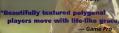
















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# Joyriding

ichard Garnot has a vision. It's a vision. of world domination, but not the way you might initially think. Garriot's world is the mystical and wonderful universe that is Ultima Online, which has recently entered early beta testing. Several thousand people have been sent beta discs with which to play the newest in online games, one that many industry pundits anduding this journalist) feel will be the biggest phenomenon to hit the Net since Quake.

Garriot's world is filled with countless personalities, both real and computer-generated. option of choosing the city or town in which you wish to begin. The very mention of Trinsic, Moonglow, Yew, Empath Abby, and a host of other towns should reaweken fond memones for nearly any Utima fan, You select your town and the inn in which you want to start your life

\_ and you begin. As with most Ultima games, at the beginning your character is nearly useless. He doesn't have any appreciable skills, equipment,

or money. He couldn't hit the broad side of an ettin with a sword, and his low number of hit

# The significance of Ultima Online to the online gaming community is simple: Never before has a game offered so much to so many

making the game something of an experiment in social interaction. You may minele in Moonglow with a mage from Minoc (say that five times fast), but that person in the real world may well. be from Minneapolis.

The significance of (Altima Châne to the online gaming community is simple: Never before has a game offered so much to so many (Altima is an established license with a massive following. The success that Librar Online will be (and it almost certainly will) is partially due to the hentage of the senes and very much due to the variation and flexibility of the game.

Exactly how success is measured in the game is still something of a mystery (much as it is in real life). You may assure to become financially rich. You may seek to attract followers who will do thy bidding without question. Or perhaps, all you desire is the ability to become powerful enough that you need not rely upon anyone else in the realm for support. Perhaps on the most fundamental level, success is simply staying alive in a world that really wants to hurt you. Either way, the world is open and free to explore however you may choose, and it's this flexibility that makes the game completely groundbreaking

After finishing the absolutely monstrous installation (which will occupy more than 200MB of your hard drive), you are walked through the simple but fun process of creating your first character (i say first because inevitably you will screw up early in your first game and have to begin another). During the character creation process, you can choose how to allocate points for three major attributes (strength, dextenty, and intelligence) as well as what appearance and skills your character possesses.

At the start of the game, you have the

points makes him a prime candidate for early retirement (and I don't mean the relaxing kind). As a result, you must rely, at least in the short term, upon your social skills to make friends and form partnerships as a means of making money

initially, you will want to build up skills. accure wealth, and generally be able to kill more and bidger creatures for players depending upon your morals). As with parier Ultimas. there's plenty of booty just sitting out in the open for the enterprising yet untrustworthy player to steal if you take an eem (let's say a

and surviving

by Christian Svensson





based on past actions, Garnot calls this the game's concept of notoriety if you are known for good deeds and honorable behavior, NPCs may offer you better deals in stores or give you more information, if you are a scoundrel who steals and kills indiscriminately then NPCs may not even talk to you. Again, Ultima Online is the first graphical MUD to have a "reputation" parameter built into its engine

One of the more ingenious devices in the game is the method by which death is handled It is almost certain that you will die many times. but rather than having to start over, you have a choice. You can be reincamated immediately but suffer horrendous penalties against your character's statistics, thus undoing days or even weeks of work. The other cotion is to try and make it to a shrine (if one is nearby) to be reincarnated. The trick in this case is that as you take time to get to the shrine, your character's statistics are slowly being decreased. The key is knowing where the shrines are and how far away they are from your current location. Either way, all of your possessions will remain where

# It is almost certain that you will die many times, but rather than having to start over. you have a choice

silver knife or fork from one of the many inns). the game checks on your chances to steal based on your stealing ability. If you fall (and as a newbie you probably will and someone sees you, be it an NPC or a human player, the guards will be summoned, and you will be summarily executed on the spot. An enforced law system is a first for online gaming history

Another path is the more honorable one of simply killing some easy prey to get started and building up some fighting skills. The more you use a skill, the better you get at it. Rabbits and birds make excellent first targets, as they not only give you gractice, but may also yield pelts or feathers, which may then be traded on the open market for cash.

in the short term, it doesn't matter what morals you have, but as you gain more experience, NPCs will react differently to you you perished until you return or someone comes and pillages them.

Rumors and quests can be found by talking to people in taverns or inns. A lich may have

taken over a cave to the north, or perhaps pirates have been pillaging smaller outposts along the coast. If you are so indined, you can join a party to take care of the menaces or not. Either way there's adventure to be had if you want some, and if you'd like to have a more quiet life, you can do that too by mining, trading, or simply working in some sort of merchant capacity 3DO's Meridian 59 started the graphical

MUD revolution, but with a well-established series like Litims and the amazing possibilities of Garnot's world. (Altima Online is a major reason that persistent environments are here to stay

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# Movers and Shakers

The business news that affects the games you play

components (a la Saturni)

### A romance folled

This latest (and last?) chapter of the lovetriangle drama between Segs, 30tx, and NEC ended with players extling sage left, white spectators booed and hissed rancorously. Despite the passionate amount between fair Segs of America and strong-chinned 30tx, beastly old Segs of Japan had given the hand of our hexcine to fat old under NEC.

Press coverage of Sega's decision to go with some derivative of NEC's Power VR instead of the more popular 30th was about as celebratory as a death in the family. In the U.S., there was a real sense of disappointment, a sense that Sega had fagain!

completely screwed things up.

VR as it stands. This could diminish the primary objection many have about Sega's decision.

Secondly, NEC is capable of astounding manufacturing capabilities (on par with Sony's capabilities and way sheed of Nintendor's, it also already operates in many areas what for providing other components to Sega's machine. This will bring the hardware price down againscarely, compared with the results of any attempt by Sesa to so shoppone for any attempt by Sesa to so shoppone for

Thirdly, NEC cherishes a white-hot desire to succeed in this market. An alliance with Sega is beautiful, for here are two companies with much to be gained by grabbing some of

> market share. It may not be a marriage made in heaven, but

by Colin



corresponders

overestimate, and Engage's announcement of a 50% cut in staff as no exception. Customers, explains Engage, have not appeared at the time nor in the numbers anticipated. This same overestimation happened with the slow

emergence of the 32-bit software market, and
with the nonappearance of a
PC kiddle games market.
It's easy to imagine
why staff members are

why staff members are taken on in anticipation of growth in new areas — they

have to be trained in a technologically challerging environment. Or, if they are already skilled, they take time to hire. But if that's so, then why are such an awful lot of these sad layoff announcements.

not of these sad layor announcements pronounced as affecting "nonessential and periphery areas"?

Stupid stunts

Finally, come purmistics are self failing for these good-wind publicity connoctions stories supplied by our finends in RP. They normally features some software publishing with a contract some software publishing with the contract of the c

in the PC game business, where it has correctly identified potential growth on its vist-to-be-fully-explicited brand. This interest

could also smooth any unpleasant postseparation legal sheaningans.

Loss of faith

Every month this column has the unpleasant
duty of reporting job losses. This month we
move to online garing as the lester churredup field of dreams. This inclusity has never
seen an opcortunity it did not visite.

it's an alliance worthy of any Machiavellian

For 30fx, it's not the end of the world.

3Dfx is still gaining ground in the PC market,

console arena. Sega wins as well. It retains

that 20% stake in 30fx, which gives it leverage

and this leaves its options open in the

Visit Next Generation Online, the #1 computer and videogame web site at http://www.next-seneration.com/



Online's readers voted an astounding 82% against the decision.

30k's plus points are impressive, for sure, its current high ranking in PC gaming circles is building upon itself it has a reputation as a useful outfit, headed by a smart management team, and, most importantly, its technology is good, it is also an American company. NEC's Power VR is not held in the same

esteem technologically. But despite its corporate perceived distance as a grinning factar multinational megalith, it could well turn out to have been the smarter and safer option for Segs, after all. First of all, the technology that will be

used in Black Belt will be based on Power VR. That does not mean it will actually be Power

30

# SHEARTERROR

It's one thing to take a bullet like a man but how does one take 3-foot long, raror sharp seissors? How will you were decalization and keep your centrals from spilling out over the hitchen floor? This will surely be your fate unless you can curvit Norway's most lebal killer-Seissorman. You'll have to become a master of seath and deception to avoid being cut to ribbons in this blood-soudsed horror adventure.

- Five playable characters and ten different endings for super-extended replay value.
- Amazingly detailed, horrific graphics and special effects.
- Bone-chilling sound effects.
  - So grab your copy of Clock Tower", turn out the lights, and pray.











# Arcadia

The latest arcade and coin-op news

# Konami with

Totally wild action. Totally awesome graphics. Total Vicel It's the latest from Konami, a two-player video upright handgun game in a handsome dedicated cabinet. Players join a special task force to seek out and destroy a nasty band of international terrorists. OK, maybe the guns and the title won't appeal to those "let's play nice" senators on Capitol Hill But hey, the nation's lawmakers and guardians of morality might like

the socially responsible theme, good vs. evil. Players should enjoy taking a crack at four different missions: beginner's target practice, Miami arms smuggling, downtown biker gangs, and New York's covert terrorists. Settings include mean city streets, dangerous subways, deserted office buildings, and moody harbors. Besides the terrorists, smugglers, and bikers, players also confront a variety of drugges, punks, and threves. Five different types of firepower can be playerselected: rifle, dual, Magnum, shotgun, and

A 33-inch, medium-resolution monitor in a showcase cabinet gives this one real "come play me" eye appeal. An innovetive, live-action speaker sound system is enclosed in each sun! When you fire a shot, you hear it, and boy does that add to the realism. As we all know, Konami's got a fine track record with this type of same, and Total Vice should make for a distinguished addition.

# Lost World roars!

Any magician can pull rabbits out of hats. Leave it to Sega GameWorks to pull dinosaurs out of hats. Lost World is the first shooting game to use Sega's "million-polygons-a-minute" Model 3 computer hardware. Graphics are presented in 3D on a 50nch rear projection screen. Players sit inside the canopied cabinet and draw two black curtains on the sides to screen out all ambient light.

OK, the key question: Do the game graphics look like the movie? Yes, Not as smooth, and the rear-projection screen does not make for the sharpest possible resolution. But the close family resemblance of game to movie is clear from the attract mode on. The game was made with full cooperation from the movie staff down to the smallest detail - which makes perfect sense. considering that the film's director Steven Spielberg, is a co-owner of Sega GameWorks. Arcadia saw an early test release unit of the game on site at the Sega City Fun Center in Invine, California, and we can testify that digitized dinosaurs are just as scary and exciting in a 50inch videoxame as they are on the Silver Screen.

Like the graphics, Lost World's sound is also three dimensional thanks to a four-speaker

"surround sound" system in this deluxe cabinet. "Our advanced sound system and the vibrating seat make every dinosaur footfall and roar a reality," said Sega execs. "Lost World's dynamic sound brings the player audio effects unlike any heard in a game before"

Players' weapons are hand-held tranquilizer. guns (one each, red or blue plastic) fastened to the cabinet via high-security cables. Two players enter "The Lost World" of Arassic Park's dinoinfested island, Isla Soma. Their mission: Save the movie's heroes, lan Malcolm and Sarah Harding, before they're turned into dino-lunch. In five stages of action, players must shoot their way through rampaging dinosaurs to "Site B" - the

laboratory complex seen in the film Other game creators, take notes here This is how to turn up the action while turning down the violence: Players try to disable predatory dinosaurs with tranquilizer darts, earning extra points for fancy shooting (ricochets, breaking stass, and so on) and - get this - for saving more human livest Several mini-games along the way decide the course the game will take. Players are rated not only on shooting skills, but on

teamwork and the number of people saved. That teamwork rating, by the way is a special new feature that's unique to Lost World. Here's how it works: At the end of the same, a teamwork rating screen appears, showing what percentage of the work each player did. You can evaluate your performance in areas like covering your partner and working together in the boss stages. The results also appear on a ranking in the pregame sequence. Check it out ... you'll feel positively prehistoric.

# Zero to 70 in

### three seconds! Malibu SpeedZone is the place to go if you want

to play 95 of the latest, hottest games in a beautifully themed arcade - from linked shidown video simulators to redemption classics and more. It's also the place to go if you want to be catabulted out of the start box in a real 18-footlong, 300-horsepower Top Eliminator Draisster, Ultimately you hurtle down the 140-yard drag strip at 70 miles per hour Rising out of the ashes of the Malibu Grand

Prix chain, which achieved fame in the '80s and fell on hard times in the '90s, the recapitalized, totally redesigned Mailbu chain of 1997 and beyond staged its grand opening for three snazzy new centers this summer Located in Dallas, Atlanta, and greater Los Angeles, each 12-acre park offers three different go-cart tracks, a dragster track, a hupe themed arcade, a classy bar, and a snazzy cafe.



The company spared no effort to ensure authenticity. Partners in the venture include twotime Indianapolis 500 champion Al Unser Jr.: 1996 PPG CART (Indy) Car World Series champion Jimmy Vasser; CART rising star Bryan Herta: and 18-year-old NHRA Top Fuel rookie sensation Cristen Powell. SpeedZone bills itself as the first entertainment concept that gives guests a chance to try four different types of racing and set behind the wheel of actual dragsters and custom-built. scale indy cars in which they can race their friends on tracks designed by too inclustry experts. Outdoor fun also includes Speedway Golf, a 36-

hole ministure golf course that's race themed The concept is geared toward young adults. with its requirement for a valid driver's license, its full-service bar and restaurant, its late hours, and its aggressive play pricing fracing fun starts at \$5 a. shot). SpeedZone also features group-meeting and party facilities. But then, these places are also crammed with family traffic on weekends, too.

After you try the dragsters, three more real driving expenences await, Grand Prix Racing gives two drivers the chance to race head-to-head through hairpin turns in oustom-built, scale indy cars. Shok Trax (sprint track racing) puts guests' driving skills to the test as up to 20 drivers race wheel-to-wheel in high-torque racers, which go into a controlled four-wheel slide through each turn on this highly polished concrete track. Finally, Turbo Track (road racing) allows up to 28 drivers compete on an 1,100-foot serpentine track while driving custom-designed scale race cars. Malibu managed to place its sites next to

busy highways so that thousands of commuters will see the park in action each day ... and no doubt get the itch to come in and try racing a dragster or cart themselves. Other promotions include good old cash prizes. Guests may compete in the park's weekly racing competitions. to win \$500 in cash and prizes. Drivers may qualify for pole position on the weekly race ladder and then compete for cash and prizes.

The first three SpeedZone games are located at the following addresses; 11130 Malibu Drive, Dellas, TX 75229, 972-247-RACE: 3005 George Busbee Parkway, Kennesaw, GA 30144, 770-514-8081; 17909 Castleton St., City of Industry, CA 91748, 888-6-MALIBU



# Retroview

# Anecdotes from computer and videogaming's past

# Low point for licensing

Companies have always tried to camouflage really bad games by attaching them to motion pictures and sports stars, in recent years the market has been flooded with Looney Toons games from Sunsoft and Jame movie games from Acclaim and Capstone, People still loke about the time Electronic Arts licensed pathetic side-scrolling action games with Michael Jordan (Michael Jordan in the Windy City) and Shaquille O'Neal (the execrable Shap Fi/) that had nothing to do with basketball.

The most expensive and ludicrous licensing deal ever to plague the industry. though, took place in 1982, long before

Electronic Arts ever considered Shap Fu. Many people have blamed Ray Kassar, the ex-president of Atan, for the infamous E.T. game, but he says the real oulprit was Steven Ross, the president of Warner Communications, Atan's parent company Without consulting Kassar, Ross offered Steven Spielberg \$25 million for the right to make an Atan 2600 game based on E.T.

The idea of making a game based on E.T. was sharp. The movie had just come out in June and was already on its way to becoming the biggest motion picture of all time America was crazy about the little alien; the problem was that Ross wanted to release the game in stores before Christmas.

I asked Steve, "When do we have to produce this (the E.T. game)?\* He said for Christmas of 1982.

This was in July when he called me ... the end of NAV

I said, "Steve, the lead time to produce a game is at least six months between semiconductor delivenes and programming and all that it's impossible."

He said, "Well you have to do it because I promised Spielberg we'd have it on retail shelves for Christmas."

We had literally six weeks to produce a brand new same, manufacture it, package it. and market it. It was a disaster.

- Ray Kassar

Once the project had been dumped in his lap, Kassar's first challenge was finding a programmer. Most 2600 games were designed by a single programmer, sometimes with the aid of a graphic artist. The problem was, none of the VCS programmers wanted to tackle the lob. E.T. was going to be a high-profile game. the president of Warner would be watching.

and there wasn't sufficient time to design a good game - it was the kind of project that ends people's careers.

Needing to act quickly, Kassar turned to Howard Scott Warshaw, a hotshot programmer with two games under his belt. Kassar couldn't help but notice Warshaw's first game, yar's Revence. It was about Yar of the Rassak Solar

by Steven Kent A frequent contributor to Next Generation









It's usly, it's no fun, and it unfortunately set a standard few movie sames have yet to exceed

System (Yar is Ray spelled backwards and Rassak is Kassart.

Ray called me up personally, Because of some other interactions I had had with Ray before, I think he just had a feeling that I would do it. So he called me up from Monterey and said, "Howard, we need E.T." This was like July 23, and he said. "We need E.T. by September 1.

I said, 'Yeah, provided we reach the right agreement."

Can you do it?"

According to Warshaw, the "right agreement" meant that he'd receive a "couple hundred thousand dollars" for five weeks of work, During those five weeks, Warshaw struggled to capture some of the flavor of the movie in an entirely original videogame. He

- Howard Scott Warshaw

failed. And failed miserably The game was supposed to be about helping E.T. build a communications device so that he could "phone home," instead, it was

mostly about helping the little space soud climb out of holes Ross predicted that the game would sell well because it was about E.T. He was right: The game was a million-copy seller.

Unfortunately, he had told Kassar to manufacture five million conies of the game. The other cartridges really did end up in a New Mexico landfill.

Consumers apparently learned from E.T. Though blockbusters such as The Terminator, Robocco, Aladdin, and Jurassic Park have been converted successfully, very few games based on movies have sold extremely well. Too bad videogame companies don't learn as quickly as their customers do













Ψ U A K E II.

## CUAKE WAS JUST FOREFRAY!

Totally N.E. Wgame. Totally N.E. Winofisters with IQs the size of their APPETITE for RESHIBOOd. (this time they can evade your ATTACK, strategically position athemselves for an ambush, and H.U.N. Tyour ass down). Totally new environments with falling rocks to dodge, rockets to duck, shadows to H.I.D.E. in, narrow shafts to CRAW Isterough, and plenty of room to SATISF yyour primal urges.







"Quake II, without a doubt, the game of E3."

— Computer Gaming World





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T MUST BE IMPORTANT WHEN

22 MEN WILL GO TO WAR OVER A PIECE

OF LAND NO WIDER THAN THIS AD.





Miami Dolphins '72 Chicaga Bears '85 NFL GameDay '98









## The great



## escape

The gaming software industry is changing once again. The world's leading gaming lights are leaving established teams and working environments to strike out with new software development houses. Next Generation examines the trend and talks to the key movers

he videogame industry's gradual transformation from back-bedroom hobby to multimillion-dollar business has often been likened to the evolution of the television and movie industries. Certainly the gradual acquisition of independent developers by gaming superpowers over the last few years seems to have followed a familiar pattern, and the increasingly serious amounts of money involved have ensured that a more corporate climate is becoming the norm. Where once a lone programmer could expect a one-time fee of around \$5,000 for his code, advances of \$500,000 for a single SKU are now commonplace, making it all but impossible for smaller teams to develop titles independent of a potentially restrictive publishing deal. A bias towards internal development has naturally followed, giving publishers not only total control over their product development, but also saving on

supersive advances and royalty deals. And yet in the last traview nontria atone, high-profile Ocom and Cloake designer John Romero has left his post at M, Sid Microprose, and Wing Commonder creator Chris Roberts has quilt Origin to co-found lightful Armil. Nos developer Bare has recently lost key staff, and eyen leading U.K. developers staff, and eyen leading staff, and ey











house Bullfrog has been hit by not only the departure of three company veterans but also company founder, Peter Molyneux himself, it seems the structure of the software industry is far less stable than anyone would once have thought

wooden. Once all the directors get used to this new power, then they can use it effectively and tell a powerful story with it.

effectively and tell a powerful story with it.

"This is what we've gone through in the gaming industry. Now we have a lot of designers saying that they want their vision.

were about ten people. How there are about one," any still evident. "It lost a bit of the common still evident the still evident to still evident the still evident to still evident the still e

#### "There was this huge bottleneck at the top and we couldn't all be chiefs, there had to be Indians" — Peter Molyneux

Tom Hall, Who recently left jib Restant to co-found fine Stream with plank Remote and ex-yth Level must find Potents, sees the rise of a sew set of independent developers as a fine seed of independent developers as a record of the seed of the see

implemented, insuced of being told what they're allowed to do by the people who write the regions. The technology has come of age, and the designers want to see what they can do with it. Designers want to see what they can do with it. Designers are in the winter of third discontent, and now want to break five and be in a situation where their design care flowish. For some, it is just a lateral more. For others, it is a tremendously fresien spooses."

This certainly appears to be the case with Mucky Foot, a team created as a reaction to the problems that beset previous employer Builfrog. "When we started there

Even Bullfrog head Peter Molyneux concedes that something went awry. "There was this huge bottleneck at the top and we couldn't all be chiefs, there had to be Indians. It meant that there was pressure for Bullifroe to expand, and one of the ways to do that was to be part of an organization. When Electronic Arts came along and out their offer on the table it was really down to three offers. It seemed the right decision to make and I still believe that for Bullfrox it was the right decision, but I do regret it because Buttfrog definitely changed for me. It changed from a company that was one big family where everybody got on with everyone else, and where lots of people socialized together, to a place that was a lot

more political. There was a lot more scrambling to climb up the ladder, which meant that people tended to get a little more pissed off. And so for mr. I found it a very

firststating environment.

Spending more and more time traveling and is meetings, it was a scathing enaily from Guy Simons, now also at Murchy Foot, that turned Molymeux around. "That single event made me realize t was actually doing something at Builting that least! particularly good at and didn't particularly good at and didn't particularly good at and didn't particularly only. It made me realize that what is should be doing is designing and writing games, and it was at that son that I swinched my

attentions.

"There were really two choices. The first
was for me to say, 'OK, 'Mn a program
designer within Bullitog and nothing else,
full stop,' or three was the choice of going
off and setting up my own group doing
exactly, what I did with Bulling, and that
was to attract people — really talented
people — and take people who haven't soil.

#### Bullfrog o LionHead

Staff: Peter Molyneux Crowning achievements: The Populous series, Powermonger, Dungeon Keeper Laaving: Builfros



A lated Makeup i come di sulfing in 1943, creating the 5-lik shooter Rusion the following year: It was the 5989 release of general-defining goed games? Populous that makey but Bulling and Molyneus on the may, with a prime triple that has been explored and refined through a studied, conservation list of subsequent releases. Molyneus's new company Includes Games Workshop man Steve Jackson among its number. Takes with the published by Unforcia kers.

Reason for move: Unhappy with role as head of the company, Molyneux intends to continue the hands on approach he returned to with the development of the excellent PC strategy title, Dungeon Reeper. industry experience. and then grow a group to a size

The Mucky Foot crew, meanwhile, are using their experiences at Bullfrog to define their new working environment. "We're going to try to keep as small as possible," says Diskett, "We believe that you can create a world-class. triple-A title with a handful of people, rather than twenty or even forty. And we've found that more people always means less programming gets done."

Diskett is enjoying the opportunity to work without the interruptions and constant meetings that blight so many larger teams not to mention the politics involved. "We're oing for a democratic company. That's why we don't want to push one person as a figurehead of the company, like at Bullfrog.

It did create some bad feeling at Bullfrog. He concedes that gamers may see echoes of Bullfrog's style in Mucky Foot's output, but given its involvement in those games, it's inevitable that many design ideas and ways of working will not change That Bullfroe pedigree might come with a price, however, It's a real possibility that any publisher which signs up Mucky Foot might

Microprose o Firaxis Craff, Cld Males

much for him (see NG 3s for Next Generation's interview with Meler).

Crowning achievements: The Civilization series Railroad Tycoon Leaving: Microprose Moving to: Firaxis

A brief history Co-founded Microcopy with Rill Stepley as the result of a bet that he could corre up with a flight simulator better than one they had both played in an arcade. The years since have seen Major remain in the development arena, rather than opting for a more corporate role Reasons for move: Apparently, even the limited contact he had with marketers and salespepple was too

old ones."

inked a deal with Sony, choosing to code for the CD-based PlayStation rather than Nintenda's wonder machine, "We simply wanted more creative control over the games we produced," says Eighth Wonder's Oliver Davies, "There were other reasons which helped contribute to our decision, but ultimately the move was linked to a desire

create new trends rather than simply follow

While the team's departure from Rare caused genuine shock in the close-knit U.K programming community, such shifting of talent is more commonplace in the U.S. where headhunting is rife, and more than a couple of years at any one development house is increasingly becoming a rarity amongst programmers, artists, and have seen Virgin USA high flyer Neil Young defect to Electronic Arts, while a whole band of Looking Glass employees have left to form their own technology-led games company, GameEX, Nevertheless, when both d Meier and Chris Roberts announced their departure from Microprose and Origin, respectively, it was clear that the balance of power was shifting.

Meier, who co-founded Microprose in 2982, always shunned the corporate side of the company in favor of game development, working on hits such as Roilroad Tycoon, Civilization, and Mogic: The Gothering, He's become comprehensively aware of the structure shift currently affecting the game evelopment community.

"I think the pendulum is swinging back velopment groups because they have less of a tendency to create the 'me-too' products. Three or four years ago publishers

#### "Big wads of cash are always tempting, but we've seen that down that way lies madness" — Mike Diskett

put pressure on the group to expand. "We'll just completely and totally refuse," states Diskett, "Big wads of cash are always tempting, but we've seen that into endless meetings about game design. and when you've got ten or twenty people putting their ideas in, these meetings last a whole day rather than twenty minutes."

Another potential supergroup to emerge in the U.K. is Eighth Wonder, formed by six ex-Rare employees. Having cut its teeth on acclaimed titles like Dankey Kong Country, Killer Instinct, and forthcoming N6s. titles Goldeneye and Bonjo-Kozooie, it's interesting to note that the company has

to be able to create the sort of games that Davies stresses their experiences at Rare were mostly positive, but Eighth Wonder is employer and be recognized as a force in its own right. "I think that in terms of product,

the difference between ourselves and many developers will be reflected in the diversity adopted the philosophy of simply repeating what sold well for them in the past churning out rehashes and updates of an ile, that's not a route we intend to he: down. This industry is really still in its early

stages; there's plenty of scope for people to



#### Origin o Digital Anvil

Croweing echievements: Wing Commander series (Chris), Privateer zr. The Darkening (Erin), Crusader (Zurovec) Lawing: Oricin











A belief history: The Robert's brothers stated out writing software for Accent's seminal B-bit computer, the BBC Millor, is the U.K. before moving to Origin and histing pay dist with Wing Communion, fair returned to England to produce the Wing Communion eague Privateer a: The Darkenting, before joining the newly formed Digital Avel, along with Crussider creater Tony Zarovec. Digital Avel has signed up with Millorgade.

Reasons for move: Disiliusioned with the structure and working ethics of large teams and marketing-led project decisions.

were typing to gather up and create their own empires of masses of programmers, seeing this as an opportunity to have more control over the product. I think during this time the industry became very stagnant and began adough the same thing over an opportunity over their products and as I think where already seen, with products like Doom and Workers fit, they can are light part of the activity seen, with products like Doom and Workers fit, they can really put out the starking seen, which products like Doom and Workers fit, they can really put out the starking seen, which products like Doom and Workers fit, they can really put out the starking sign from the seen of the starking seen and the seen of the seen

There's little doubt that Microprose will be hard hit by Meier's decision to found firads and jump into bed with Electronic Arts. The same publisher, of course, that Wing Commonder creator Chris Roberts has broken away from.

Roberts of ligital Anni, the development, house he's set up with brother Erin, Crussder atther for State Queen and the set up with brother Erin, Crussder atther for Zusove, and Gillmanker Robert Rodifiguez. "I don't want to have go openois like we did at Grigin — that's detrimental to the whole creative side Origin definitely lost something when it got bigger. When you don't know half the people in the confident fruits of the whole you've got problems."

Roberts' departure from Origin is partly

thirty people on a single project, thereby watering down the game's vision, but undoubtedly allows a result of marketing pressures. "One of the problems I faced at Electronic Arts was that I could get any amount of money for another Wing Commovée, but not something new," be tranky admiss.

ith the intention of working on three five-man projects – Chris Roberts' Freelencer,

Zurovec's Highw Knight, and Erin Roberts' Conquest (all working titles) — using only

staff members who have more than five years experience and at least one hit title under their belt. "The idea is to have better people with more time to develop a title, rather than just throwing more people at a project," says Roberts. "You have to keep the teases with the transparence of the have read to the teases."

interestingly, Digital Anvil is also making attempts to replicate the creative, driven environment of small external development teams by offering profit-related pay. "I want it to be a place where you've got a piece of the action, where you feet like you've got

And then there is pethaps the biggest move of all, that of John Romero from Id. Software to development supergroup on Storm. It thought about the decision for a year before leaving and started talking to for Hell about starting a new company about eight months be fore I left, "says Romero, "It eaving after fishing Goube was the right choice — leaving after fishings on the game." I keep on good terms with the Id.

#### "Leaving after finishing Quake was the right choice — leaving after finishing a hit game" — John Romero

He descrobes the typical catch-pa statution that so may large publishers have faller into in execut years, where new and the large publisher in the agenda. "With more money irrobord these days, a game's development budget ends up to may based on expected sites. So unless it is a really familiar III's end, so does unless it is a really familiar III's properly to the large predict what It'll seek, and so they are frequent to the large predict what It'll seek, and so they are II. And without proper funding, you can't come up with a strong the III's a control of the III's the III's a control of the III's large prophery.

title. It's a sort of self-fulfilling prophecy." Consequently, Digital Anvil has hooked up with the more open-minded Microsoft, seen meters on years.

Man has been noted about Romero's
frustation at having to design Quite enough
agene eggine that was constantly in flux,
and he does admit that vail was constantly in flux,
and he does admit that voiling with a
finished technology (the Quote engine,
inoxically) at los Sorre eases the
development star in fly suggitudes. Yet
supplicitling in describes the company
trutture as being part like that at rid. at
least in terms of day-to-day development
brough he dails. "Received for oak be we

have regularly scheduled meetings, and be



#### The Ion brew

Ion Storm's rapid formation and spisse to publisher tollow seat indicative of the way a strong teach mend can reade the formation of a new development steam a fine smoother affair. "John [Borneco, Ieth], John, Tion, and I more at John's house and discussed how we should proceed," says loss Soom's Todd Former. "Dealt the business plan with his help of a linearized banker and upon in year loss for plan." In the statistics are successful game development to remove we were in budients they expand up. Exemptify the number was practed than any of a persent, the spread-banker and the statistics are proceeded as the second process of the statistics are proceeded as the second process of the statistics are proceeded as the second process of the statistics are proceeded as the second process of the second process."

don't lie, so we took them to about five or six publishers."
We some publishers were wary of lark's desire to fund three projects simultaneously. Others, not surprisingly, just didn't have the stank accessary to sign the superstar form up. The deal they struck is runnoond to be worth same

So million, and protects the developer flore lass of revenue based on discounted foreign sales.

"Eldo is an aggressive company, which had a good product out there! (hash shader) and had the deugh to go through with the deul; "says Tion Hall. "They save the numbers and intendately skatched out what they could do," adds Foreign." "We've made it a practice not to talk about agenifice, but suffice it to say, the deal was great for both parties."

more sensitive to many employment issues. Positive-wise, I would have to say that Id teaches focus, To do anything really great in life, you definitely must have a focus and

Stay that way."

He does, however, believe that the tightly focused way of working at Id left may be a second to be a second t

tightly locused way on working at to tert no room for any kind of a life outside of work. "That is a very negative situation when you are an outgoing person, but you can get a lot accomplished if you live at work. It's not

or me."

Hall is more direct.
"I left Id for the same reason I left 3D Realms later — the inability to have

was fine doing what they boiled down to — a hot tethnology company with strong gameplay and last enough costen to make it appealing. 30 Realms is starting to do what I wanted to do — just not in the way wanted to do it. They're putting a lot of contest in their games, but they are going for shock walse rather than emotion, which is what I want. They don't really want to improve whose new writted areas of

gameplay — I really do." Hall findly believes in the theory that a single leader will produce better results. "It may sound high and mighty or self-limportant, but if the head not work has the whole Anochronou fins current project at lotel universe in their head; a lost nated an artist instantly if something fits in the universe, in your does, and where it should

go. A project will get done faster and be so much more

distinctive if there is one person

guiding it." Of course, one

Of course, one other reason to le

large company is born sleaply from the eary the whole company is run. In of Sterm's Todd Porter. "Personally, lerny (also row ail lor) and left jith Level because the people making decisions abe no idea how to make great games. Belleve it or not, I had to deal with things like belling one of my programmers out of jail because the management insisted they be on my team. God knows how much time was lost because the decision of the company of the company of the With Damilton. I saw a



#### Bullfrog @ Mucky Foot Steff (from left): Fin McGetchie, Mike Diskett, Gay Simmons

Crowing othlevements: Syndicate, Theme Park, Syndicate Wars (Diskett): Theme Park, Croolion (uncompleted) (Simmons); art for Popolsus z, Gene Wors, and Syndicate Wars, at and design for Theme Park and Indestructibles (the latter now on hold) (McGechie)
Levelies: Bullifor

Moving to: Mucky Foot



A brief history: Three of the longer-serving members at Bullfrog, they preempted Melymouth decision to jump ship by several menths. Working on a PlayStation title (followed by a PC conversion) due for correlation mid-fall. With to view to a publisher.

Reasons for move: The tho grew distillusioned with the changing structure of Bullings, and yearned for a smaller, more efficient and controllable working environment. The decision to shell Simmons' Creation project also certainly contributed to the decision to leave. trend and jumped on it, but when you have to spend four months convincing management that a game like Dominion is worth doing, the moment is lost."

worth doing, the moment is tost."

Porter perhaps sums up the appeal of settling up a new, more streamlined development team when he says, "At ion, I om management."

Speaking to these job-swapping industry figures, it's clear that the insability of employers to ratio a fresh, creativity led attitude is the prime reason for these deportures. It's a clicick, certainity, but the lides that smaller developers and publishers are more willing to take risks that make remove willing to take risks that may be removed to the risk. Insafe, you will have it's the target, better-funded more oliverstifled publishers that ought to be able to be more during. Eighth Windows 100 year.

impanies generally make their decisions about which type of game to develop based

Davies agrees, "Large

for such a game. Thus, a company may churn out derivative platform games because pact sales fliques suggest that people want to buy exactly that. It a game is, then, then provided it is marketed correctly, it should sell. I think many small developers probably see things in such the same way. Sales should be a reflection of the game.

Little wonder that independents such as David Braben's Frontier Developments, are considering funding projects themselves until near completion, and only then looking or a publisher willing to bring the game to market. While such a working method should guarantee more originally, and pure (i.e., less influenced by marketing men) software, it's beyond the means of most

#### "People see that it can be done and decide to have a go themselves, which, in turn, inspires other people" — Oliver Davies

"If you look at the companies that proliferate this industry you'll see a great number of owners who have foogotten or never knew what it is to make a fun game, "asy ion Storm's Jode Potter, They are all looking at formulas, as if this can somehow be a crystal ball to the future. They see Myszi, Worzerf, Debole, or Quoke and they think, "key, if we do games like that then we loo will be profitable." development teams. Instead, the many new developers must struggle to find a publisher willing to brave the risks and costs associated with external development.

Says Davies. "I think that the industry is as equally also is upport external as equally also is support external as equally also is support external development frame as it has been consistently able to support the large development. If he market expands then well as external development, if he market expands then well as external external development external for a support the external development external external development external external development external external supportability feet the blue first. I think that what are adversal development external real feet over an internal train is heavily dependent upon the town in quartice."

As for the recent proliferation of new development houses, Davies Sees it as part of a cycle, but also believes that there's a cumulative effect at work. "People see that it can be done and decide to have a go themselves, which, in turn, inspires other

So is this really the birth of a brave new era? "I hope so," says Chris Roberts. "I said four or five years ago that the studio model was going to go away, and I think eventually it'll hances"

John Romero has a different view. "The recent period of congiomeration in the industry has distillusioned some of the designers at the companies who were acquired. This leads to fragmentation and is a natural part of the overall Cycle. The same thing will happen again, but not for a few

There does, however, seem to be a general consensus concerning the best environment for creating videogames. For even Chris Roberts, one of the highest-



#### Rare o Eighth Wonder

Steff (from Left): Steve Patrick, Oliver Norton, Jeff Stafford, Adrian Smith, Oliver Davies, Christopher Gage Crowning achievements: Donkey Kong Country 1 & 2.

Kitter Instinct



A krief listing? The three engineers, was artists, not one game designs worked at high-quality Watendadeveloper Ram, where they contributed to the acclaimed SNES NR Dookey Kang Country, both Küller institutgames, and ferthiocoming Mile States Goldeneye and Samjo-Kazoook. A deal with Samy has been struck to work on PlayStation software.

Reasons for move: The restrictions of working on a cartridge-based format and the urge to step out of Rave's shadow. A desire to move away from formulaic sequels and concepts is also likely.

again. "You can turn a motorcycle around easier than a plane." Says Hall with a smile. "You can have lots of artists, but the design team must be small

artists, out the design team must be small to keep things under control, or the project will slow down under its own weight and bureaucracy."

"It's about having a small group of cenole you're down to the out brainstorming.

oceation retain than sitting in a conjourner soundaries may be added and the state of a page with the logic that the vision of a society, appreciated few — or even a ceignt, Lekented deslips or — with a ceignt of the ceignt of

#### The digital desperado

In addition to Chile and Siro Bellerin, and feliates en digit in an interpretation, processing distinction between the distinct of Report and Processing and

He continues. The idea is that we're trying to develop a game, and make a movie of the game which he'll write and direct. We're focusing on creating cool universes and properties. We want to exploit games first and foremost, but also comic books and movies.

has of the three time under development will also feature made foreign. Design with the polithers of adopting and one operations on Roboth print, but what will be one contribution than the squares used in the lattice Rhoy Commenter game. They won't be imported one as littles," contribution Critic. Reductour the heart print like what print, all print and littles are specified to a street, "contribution Critic. The burghts. The lattice was an extra and collection." The lattice is provided to contribute on the lattice was an extra and collection. The lattice is the lattice will be record that in Artificial Resolution and court of some of the print of some of the lattice was an extra and collection. The lattice is the lattice was a feel and on the lattice was an extra and the lattice will be recorded to extra an extra and any advantage of the lattice was and the lattice will be recorded to extra an extra and any advantage of the lattice was and an extra and any advantage of the lattice was and an extra and any advantage of the lattice was and any advantage of the lattice was and any advantage of the lattice was any advantage of the lattice was and any advantage of the lattice was any advantage of the latti

Interdence, Predestor is currently in the early stages of a two ends what live and development challen.

Reviving the Car West Servin, Digital Analysis Alighahory Might I (exother working tills), in Crosofer
creator Teny Zouwer's bally. This set yop years in the fature, where Annalso has devivend and given rise to
auto-moreotanes," reveals Chris. A journey from the East coast to the West, complete with the remnants
of familiar information, is internated by the texts.

This trin Roberta' Conquest (again, a neoding this) that will provide Digital Annii with its debat effect.
Thus 30 and a science diction scenario once again figure into its concept, but with the pipper is control of a whole filest rather than a single costi. Stoney strategy elements will also have a part in this causaul hybrid. "The pitch is that I'll look scenebing like the end buttle of Return of the (Act, "says Chris.

Next Generation awaits a first glimpse of Digital Arvil's work with keen interest.

#### "It's about having a small group of people going down to the pub brainstorming together" — Mike Diskett

While Davies is probably right with his agreement that the industry is easily able to support external development teams with their more efficient, and therefore less expensive, development budgets, there is the danger that the rate at which new teams are appearing will simply saturate the market.

Molyneus is cautious about the aftereffects of the current climate." Ido start to wonder where all these games are going to go and who's going to publish them. Because I know of trenty new start-up development groups, all of which are to be some ideas, all of which are saying exactly what "Im saying, which is that we're going to produce the best games, the most original games the best technical games —

and you just think, well, there were only a handful of successful games last year. For all these new groups to develop those is going to be tough."

What this is likely to mean is that the

counters number of small terms on both sides of the Atlantic will feet the squeeze mest, as the new breed of high-positie undependent begin best deal and take the line's share of publishers' external development underlies. The lesser-known teams will have to gain a strong reputation protty fast, as necessary MS letteractive (currently working on Eurithwarm Jim 20 for literally—see MS (3) has done, or face a bleak future handling conversion work in a ble to stay affects.

From a publisher's point of view, the

these of ten Storn, Hontress, Maxiy Foot, and Tighth Windows rome with Track Records to die he had been seen and the second seen and seen and seen and seen and seen understand the need to balance strong leadership with team inquiry regular bearings or garden seen and seed and seen and seen and seen and seen and seen and seen and seed and seen and seen

marketing departments.

But even for the team that beast that imagical combination of industry muscle and hard galored knowledge, there's the every present diagrap father their initial dream projects have been realized that money, expansion, and published pressure could see them once again become exactly what they cought to get away from. In which case, Romero's prediction that the cycle will continue to repeat will be proved right. At which point, Maxa Generation will be three conceagain to examine the rise of more again to examine the rise of



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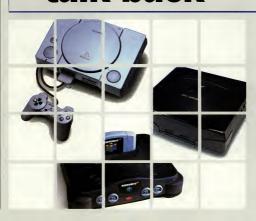


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# The future of consoles

sony, Nintendo, and Sega talk back



With the PC threatening to engulf the videogame market, Sony, Nintendo, and Sega met at E3 to discuss "The Future of Consoles." Next Generation offers the exclusive report:

t's not often that you get high-ranking representatives from Sony, finitional and Sega sitting in one from All Best, not without juvenite neme-calling. But at 50 in extra the second service of the second second service of the second service of the second second service of the second sec

thought on "The Future of Consoles." There were four man topics on the agenda: 1) is the life cycle of a videogener console getting shorter? 2 WMI consoles of the future automatically be reversed for online germing and have a modern but it in? 3 WMI consoles of the future ofter other influtions besides just game playing? 4 WMI software medium will consoles of the future utility.

#### 1. Technology Life Cycles

Most pundits would agree that the life span of videogame consoles seems to be getting shorter, more than to thorology seems to arrive quicker than ever is this true? And if so, is this good or bed for the console industry?

Georges it's hard to say that the life cycles are getting culcier. What happens is that someone comes in and introduces a new machine and tries to truncate the life cycle of whatever the existing platform is Probably the core life cycle of a videogame console is about five to say years it's been that for 16-bit, the NES hung on for a few more years.

The reason this long life cycle is important is because in tends to be the later years where you can make your money. A two-year life cycle would be a disaster You almost can't sell enough hardware in two years to pay of fulfilling the software needs of those people and have a decent business model. So it has to be at least four years, and preferably five to.

But we have control, to some extent, over our consoles! life cycles, and it has as much to do with the continued quality of games. We introduced the Donkey Kong series for SNES in its third or fourth year, and it gave it renewed life and kept it moving on and selling software A console's life has much to do with whether or not you are continuing to simulate people with software. Consumers only seep up to a new mouthine which they believe that the software in the new machine is clematically better than what they've got, and they see the commitment to their current polithers platform wanning.

Gretchen: Product life cycles could be shortening a little bit. Part of what's happening is reliated to Moore's Law— sermoonductor power doubles every 18 months so new technology is coming down in price and becoming an affordable consumer product as it solder rate.

The challenge, I think, for Sepa, Sown, and Minardol) is to maintain a product (fel cycle of five to say years. Now years is not a particularly good business model for anybody, and I don't think the consumer wants to see new consoles come that quickly, eithers. Ortainly, from a software standpoint, the first generation of software is typically not nearly, as good as the second or third generation once the developers enally set to undestand the new technology.

I also think that prime a an opportunity for energy level considers to mean in the marist at the same term as a new generation. Netration and region and there mind under of 6 of any general safe with a consideration of the same term as a new generation. Any and a same and a

Phil: First, I have to say that the game industry itself is its own worst enemy Companies make big announcements, and the press does a fantastic job in evangelizing whatever's new and what's hot. And ubmissely that gets to the consumer quicker than we would all imagine So this notion of life cycles is as much the industry's self-imposed issue as much as the consumer's own desire to purchase the latest, greatest thing. Similarly, as soon as you start talking about the

end of the product the cycle, you're in touchie Second, lagree with Gongs the Cycle is driven by software, not hardware Actually, it is driven by the ability of the software including to strow some directions to act, in the LUC with a second year of the LUC with a second year of the country act to year year owner unless of the country act to year year owner when year there were a small name or of people who would contract to buy that. That's an esterne seample, feature of the country and by the year of the industry continues to make a profit at a prose monthal to grant that is a second to the second year.

consumer, then that platform will continue.

The current generation of technology is going to last far longer than anyone in this room really amorpates, but I don't think we can actually put a

#### 2. Online Connectivity

Neither Sega Saturn, Nintendo 64, nor Sony PlayStation launched with built-in online connectivity, vet so much has changed over the last two years that very few people would bet aganst the next generation of consoles coming with a modern built in .But what are the real issues concerning building online connectivity impo consoles?

George: The technology in the current hardware systems is fully capable of incorporating online connectivity. But the question is not whether you can do it, the question is whether you should do it.

Looking at the early stratege and success of any other collens and sense with the many of the critine comparies such as MSA ANA, and seen if the oritine gaining networks, there obsert seem to be a dece, writing a weigh of do it and Nintersocks corporate strategy, although I know it it suissites many of our most ardering systems, has strategies been to be more like the tomode than the harse. We tend to wait and makes sure way at the exprising right before we can write the sure way at the exprising right before we can aprilling, bould be unitiday to see Nintersob breaking ground in this same.

Gretchen: Sega has founded NetLink for Saturn and it's been an interesting experience for us. There is a fairly high degree of interest in online gaining for the consolic customer—a situacy in March of this year indicated that 65% of consolic uses would be filely to play oriting gainest first users would be filely to play oriting gainest first in.

functionally was included in a coroole. Lagore with George, however, that the challenges not as om unit on or of technology, but of what you do with. Coroole gennes they specially are action nemical, accede-bosed, fast, specially are action nemical production. The sis a state deviationate to generate online. The other issue as that, as as now being sealed, playing consisting small production of the production of social three, so continue environments also need to look at how they can onless an equally.

competing social atmosphere.

As for the business model, you book at how wheth and 18th have been doing and it's very unclear how to make money at this studies clearly show wheth the last thing an online user wants is to be noted and dimed every time they get online but then the set also become a finding set you've got a customer time that's aged eight to 18 for the mose part, how do you get a credit cast from them?



The 64DD mey include a modern end will be the first console add-on with a writable disk

Philit I would agree This is not an issue of technology, this is an issue of business model. Currently, 80% of the revenue for the celes

Currently, 80% of the revenue for the exerting orthing parting exmoss corners from about 19% of the people. So you end up building an enormous inflastructure to service as in your united of people often studies indicate that the excent per Publish gaining services have spent a great amount of money coptump between them less than \$0,000 users — and lots of these people use more than one online garning system.

I think online garning is a little bit of a myth. A lot of consumers, when asked if they would like online garning, automatically say yes because they don't actually know what it is — very few



The Yaroze: Sony's tool for teaching a new generation of programmers about console

people have actually had the experience it's like asking someone if they would like a Ferrani. They say yes but then discover it costs a lot to run, it's going to be in the shop all the time, and it's going to guzzle gas, and currently this is the experience.

most consumers set when they play online Also, online gaming is pretty much a North American thing right now because you get local phone calls for a flat rate or for free The videosame business is a worldwide business. however, and telephone access is not the same in the rest of the world. France and Japan, for example, have very expensive local telephony. And these are issues which the humble videogame company is not in control of Videogame companies have to wart for the giants of business and often governments to deregulate and invest enormous amounts of money in telephony infrastructure, pricing, and technology before instantificant \$15 billion companies like Sony can get involved. We get scared by the telephone companies They're just so huge They could buy us all in an instant.

#### 3 More Than Just Games?

In the past, many companies have attempted to build "more than just a game consola." But all of these, 300 being the most high-profile exemple, have failed. Even add-ons for established machines never seem to succeed. So will the game machines of tomorrow be all-singing, alldancing "set-top-boxes" — or will they remain pure game machines?

George: Historically, them heart it been a lot of evidence of success adding sets articles to viscogament appeared to the several section of viscogament appeared to the a vectorical machine it was going to bits proto CDS and do all sorts of immertical strings. But I was proto at \$400 or even more after a brand out that in the end the consumers besidely set of Cord warr you to bundle all these things together. I want to sow what I want! And for our business their is the Low what I want! And for our business their is the Low what I want!

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#### leti.link, Seturn's modern, has been a hir nong the few gamers who've picked it up

core entertainment of the videogames themselves. Besides, anything that takes the price over \$200 I think for us would be a problem, and takes us away from what we think is really the mass market.

It's a little hard for me to cover this area. because Nintendo has no immediate contrience We try to keep focused on what we deliver which is games. We view ourselves as a software company that makes hardware because we don't think other people would make it the way we want We keep focused on the software as the way to drive our machines and let other services or other machines do the other stuff.

Gretcher: So far the idea of a multiplayer has been proven to be somewhat flawed. A business has got to deliver its core product and work towards its core competencies foremost. If it tries to do too many things all at once, chances are very good that it's not going to be successful. Besides, it seems as though entertainment is what people are most interested in. Most people buy a PC and they say that they're going to do their taxes on it and other things to justify their purchase, but they spend most of their money on entertainment software. So I think that's what people want to do. Ultimately, they really want to

Also, research indicates that 50% of console owners also have a PC. So the question becomes. can the customer set all this extra functionality already on their PC? But if people who don't have access to the internet can get access by buying a \$199 device, I think that's a tremendous thing. Especially when you start to look at \$2,000 PCs versus \$199 consoles.

Philt I think we're not very good at all this extra stuff. We make great hardware, and we and our third-party developers make great software. Also, it's important to remember that as soon as we start adding extra features, we come into competition with the PC that can do all these

things better. The PC is also continually evolving. so whatever product we launch - designed to coast for a four- or five-year life cycle - will immediately be underpowered and overproed.

Also on the subject of add-ons, our business model is driven by break-even hardware and profit on software. And that's common to all three companies represented here. We deliver the consumer a very attractive proposition, a low cost of entry, and sell them software, from which we derive our profit. So it's not straightforward as to how these hardware add-ons fit in

Sony has however explored the idea of some kind of set-too box featuring PlayStation. technology About three years ago, a sister. division used the PlayStation chioset in an interactive set-top box trial in Belgium. It was a limited trial, about 10,000 homes, it was very successful. The PlayStation, like most videogame systems, has the kind of technology, and more importantly, the cost of goods, that you could use as a viable set-top box

But what you find, though, is that in order to build a good set-top box, you need to be streamlined into a certain technology, and to build a great videogame system it's slightly different. They come from different technoloses And when you combine the two you come up with redundant expenditure. The price spes up, and the consumer won't pay for this box because typically it's just given away by some advanced. subscription or premium service.

#### 4. Software Delivery Medium Currently, the debate rases between CDs and cartridges, but what of the future? Is DVD really a biz deal? And what influences a company's choice of delivery medium anyway?

Gretchen: With CD-based console players, we've been able to bring PC content to the consoles. Despite the challenges yet to be overcome, such as the style of games that appeals to PC players that are not appealing to console players, this is certainly a big advantage to CD-based systems. This will also influence the choice of software delivery mediums in the future.

Phill: The short answer is that the medium doesn't matter. What really matters is an attractive business model for yourself and third parties, and - equally importantly - a format that allows the first- and third-party software developers to express their creativity. Also, our industry will grow dramatically if we innovate, but in order to innovate we have to take risks. We can minimize the risk to same developers with a lowcost software medium such as CD

There is no argument that CD is the only format that is viable for games. Currently it is the only format that has the price advantage, the

creative advantage, and the manufacturing speed. The CD-ROMs found in PlayStation and Saturn allow videogame software companies to make their products quickly cheaply, and deliver great. value to the consumer, DVD, which is just a software medium, remember, is not yet at a point in its curve where you can make them quickly. chesoly, and make enough of them in a year to have a solid production flow Sorw will be making tens of millions - actually more than 150 million. - CDs for PlayStation in the next 12 months. There is no DVD plant in the world that can match that - and Sony is a pigneer of DVD manufacturing technology. So DVD is not vet a

Also, for a company like Sory it's a question of asking things like, "What will the guys who sell the DVD player do if the guys in the next room are selling a videogame system that offers the same technology much cheaper?" So there are big issues at play here that are not going to get discussed openly in this room. [Laughs]

practical option

George; We take a different point of view We think that CD does have a lot of advantages, especially for manufacturers and publishers. But we started our development exercise, including the choice of delivery medium, with the game player. We tried to so backwards from what we thought would deliver the absolute best possible game experience. We believe cartridges can offer the best game expenence.

We know it's a challenge keeping the costs affordable, and we know it's a challenge to the third-party publishers. But we know you can do dramatic things on a cartridge that just can't be done on a CD. The garriing experience of titles such as Marro or Shadows of the Empire are just not possible when you have to stop the gameplay to draw data down from the CD. You can also do realtime audio, and that can be responsive to things that are happening in the game, and not just a soundtrack going on behind the action.

So ultimately the choice of the medium is, to us, more of a creative decision than a manufacturing or cost decision.

Philt: That's rubbish. I'll give you just one example. Final Fantasy VII comes on three CDs, which is 1.6GB of data. Based on Nintendo's current FOB. price, this would cost the consumer \$1,700 if it were a Nintendo 64 cartridge, I rest my case.

George: For slow-playing games like Final Fantasy, that's probably not a bad medium to choose (Big (aughs)

On that note, before things got any naster, it was time to bring the discussion to a close. Look for more on this subject soon.





How do you spot a Sonic Inantic? Just look for the gold rings. Sonic Jam for Sega Salurn combines the 4 bestselling Sonic games in new 32-81 brilliance on one stellar CD. Plas you can cruse the 180 Sonic Museum packed with Sonic memorabilia. So get Sonic Jam. Unless you've get holes in your head. Uh, bad example



In Japan, forlorn teenage girls weep over the deaths of their Tamagotchi toys and send them to official gravevards for burial. In Europe, elf-like virtual pets are bred like racehorses and traded over the Internet. In the U.S., digital Dogz and Catz live on computer desktops. Have we found a new best friend?

> have embarked upon a new era of virtual pet in which our computers have become backyards for our digital pals, and the fertile ground for our own imagination. In some cases, puopic are relating to pretend pets not unlike the way they would to a fish, lizard, or bird. They are obsessing about their pets' care, becoming hysterical when they die, and more than bits and bytes of coding. The line Why? Have virtual pets dramatically evolved, or does this new trend reflect our own their popularity in general - portend for software developers, and the gaming industry

pets actually alive? Their creators say it deserves serious consideration, since some of Artificial Intelligence. Mind you, this is not the soup-thin AI that game developers have Take the furry woodland Norns, for

Finally, the emergence of these pets

example, which were developed by a British Al.



living things [exhibit] — such as that they excrete, require energy, carry a reproductive code, and so on," Cliff said. "In the case of most software agents — Sonic the Hedgehog or Super Mario, the answer is no to all of the features. In the case of the Norns, the enswer is vest to a survision number."

s to a surprising number."
The Norns aren't the only creatures

on the threshold of a new gaming era. From this day forward, he presumes, players will begin to develop emotional relationships with animated entities, and the entities will be sophisticated enough to deserve our nurturing attention. Ultimately, Bates and others believe this generation of virtual perts will give rise to a whole new level of

Players will begin to **develop emotional** relationships with animated entities, and the entities will be sophisticated enough to deserve our nurturing attention





company called Cybertile Inc. Cybertile constructed the underlying software coding to minic belongs, including copying basic chemical and genetic processess. The creatures east, sleep, reproduce, get slick, have a such installed installed, and even evolve — leading some researches to credit Cybertille with a damn healthy installed or real life. "It's an extraordinary impressive piece of work," said toughts skeins, suthor of introhiber's Goaled to be a support of the confidence of the company of t

Dr. David Cliff, an Al lecturer at Sussex University and a consultant on the Norn project, said the Norns are a major leap forward from existing gaming software. "Basic biology texts will list like 12 features that to lay claim to the "strifficial life" mominker, fujits unteractive contends that it is fin, a half dolphin, half brid that bit the U.S. market this spring, is the most spohisticated use of AI ever in a game. According to its creators, fin Fin is a semi-autonomous creature programmed to develop an emotionally based relationships with its owner. The object of Fin Fin — talk and sing to the virtual pet through amtrophone and surture a friendolship with the valual pet through amtrophone and surture a friendolship with the

Meanwhile, Anark Inc. is set to release Golopogos with its autonomous protagonist named Mendel. Mendel uses a new proprietary

creature.

technology called Nonstationary Entropic Reduction Mapping (NERM) that permits it to learn from mistakes and adapt to the environment, with or without explicit instruction from the player. "There's a new breed of companies coming forward," said Anark President Stephen Collins. "Our characters are not necerogrammed."

Whichever version of Al is the most sophisticated, Joseph Bates, artificial life expert from Carnegie Mellon University believes we are interactive gaming. Thousands of players will be able to compete colline, not play with one another, but with digital creatures that are unperficible, but plausable, impeter, you will, adventure games in which a town's bartender, gatekeper, and over a cell innerties, learn, and adapt. In my view, this is of the purpose of games. This is the design of games, "Retes said. "This is not about the convey of Al that's each basified about any of the purpose of games." Better said. "This is not about the convey of All that's each basified about any of the purpose of games." Better said. "This is not about the convey of All that's each basified about any of the purpose of games." The purpose of games are under dataseters that have a range of emotions, and give the impression of life."





Anark's Galapagos features a mythical creature that learns from its mistakes via a technology called NERM

#### It may not look like it, but Dr. Bruce Blumberg and his students at MIT are conducting a serious experiment with Silas, a cute and cuddly virtual dog

is name is Silas, and his virtual yard is a 16- by 16-foot area at the MIT Media Lab. There, Silas, a dog-like creature, is projected by a computer into a three dimensional space, where kids can play with his animated image as if he were more ghost than virtual pet. Silas may also present a climpse into the future of virtual playthings.

Silas was created by Dr. Bruce Blumberg and other students at MIT. He works like this: The creature is generated on a computer, then his image is projected into the virtual playpen. When a person interacts with Silas' lavage, the person's mestures are picked up by a camera. and fed back into the computer so that Selas can react to them. Slambers refers to the experience as poor man's Roger Rabbit. "Using vision techniques, the dog can respond to you gestures," Blumberg said, adding that, like other virtual pets, Sitas is programmed in a way that he needs to satisfy certain drives, "At every instant, he's trying to figure out what to do. There are little self-interested agents fighting for control - Is his motivation to play with you or to pee?"

Blumberg sald that Silas, in fact, has a less sophisticated brain than some other virtual pets, such as Borz by PF Maric, Still, kids who compare the two often find that Silas is more "real" and more "alive." and researchers think they know why, it turns out that Siachas a quality that is thought to be an Increasing component of artificial life, namely he is emotionally accessible and thus, people think he has lifelike qualities. "If they have capressiveness, people will give the benefit of the doubt to creatures and read more into them than there is," Blumberg said. This effort to create emotional

characters rather than purely intelligent characters represents a radical shift in recen years in Al and A-life research. For many years, the goal was to create purely intelligent entities - mathematically based systems such as chess-playing muchines that could play chess for better than even their programmers In spirit, though, the latest efforts fit nicely with the original definition of Artificial Intelligence, as conceived by British defense department scientist Alan Touring in the middle of the century. The Touring Test for Artificial Intelligence, simply out, states that if you



machine, then the machine deserves the same respect you would affect the man. This emphasis on emotional intelligence herzo in the mid-rokes, when another MII

scholar, Rod Brooks, wrete a paper called "Elephants Don't Play Chess." His point was that animals, while they lack pure intellect, do a great job in making sense of the world. Brooks altimately was the founder of a scho of thought called Behavior-based Al, which said that biologic not math, should be the inspiration. That thinking has permeated Starford University, Carnegie Mellon University, and the Media Lab, the three centers of Al the government helped fund in the sosos. All three continue to thrive today, and each is, directly or

One of the basic questions tha researchers are still trying to answer is: What is the definition of Artificial Intelligence? "There's not a good againet," said Dr. Joseph Bates. professor of computer science and fine arts at Carnegie Meilon, "It's what constitutes intelligence, what constitutes human-ness, and what constitutes life, and none of those have easy answers. All of this stuff is in the eye of the beholder."

> his point. Rates tells a story about a day he welked into a lab at the University of Chicago. He looked up and, to his being watched and followed around the room - by a

eve attached to a robotic arm. "XII I can say is that it made me very uncomfortable," Bates said. "It raises the key question, which is, "What makes a person think that a machine is

At Carnegie Mellon, Bates and his team are working on research designed to create digital entities that are perceived as alive. whether or not they exhibit classic intelligence. For example, they are trying to figure out how to create a videogame creature that will care about Itself. Said Bates: "You have to believe that if you do the head off a creature. It cares. You have to have characters with a rich range of Barbara Huyes-Roth, director of the

virtual theater project at Stanford University.

said virtual pets, netably fin fin, don't exhibit

particularly intelligent behavior, "If you want a pet," she said, "get a dog," At the same time, Haves-Roth thinks of the creatures as more than a game. And she sees substantial potential for the computer medium to create for more sophisticated creatures that increasingly will approximate life forms. Even more so than what books or movies or television have been able to do. "What's really wonderful and distinctive about computer-controlled media and what is more like life - is that they can be deeply interactive," she said. "It offers an opportunity for a person's behavior to have a noticeable impact on the other side. When we master this, the entertainment market is point







in terms of Al, Slies is still less sophisticated than Dogz

new virtual best frienc

Man has a



Korea and Japan have banned the toys not just because of the incessant beeping, but because children are becoming overly excited or griefstricken about the fate of their pets. There is at least one reported case of a teenage girl committing suicide over the death of her

didn't really start the virtual pet craze, particularly for computer-based pets. That honor belongs to PF Magic, which for three years has been marketing Dogz and Cotz. Brook Royaton, contributor to the original Dogs. project and marketing manager for the San

Schools in Korea and Japan have banned the toys not just because of the incessant beeping, but because children are becoming overly excited or grief-stricken about the fate of their pets

#### My friend the little chicken

Regina Wiedel, a legal secretary from San Francisco, was at the Farmer's Market recently when she got an urgent page. The page was from Wiedel's sister, who was concerned about the health of her son's Tamagotchi, and didn't know whether it needed affection, food, or discipline. "I know this is really silly," she said, "and I know you'll think I'm stupid, but I don't know what to do. I don't want to kill it." Created by Bandai, the Tamagotchi is the

most popular virtual pet of all time. Your job, as a Tamagotchi owner, is to care for the pet by pressing tiny buttons to feed, discipline, and clean it, as well as give it affection and check its health status. Keeping your pet happy is no small task - it beeps frequently to demand attention or food, or to let you know it is under the weather, Initially, Bandai designed the pets to anneal to teenage girls, and to give them a taste of what it is like to care for children. Their popularity has spread far beyond that demographic, though. Bandai put the

Tamagotchis on sale in November of 1996, and by June of 1997 had sold 1.3 million in Japan, creating such a demand that it gave rise to a black market

Affection for the Tamagotchis developed far beyond the company's expectations. Schools in





Tamagotchi. The fascination with those pets is particularly heightened in Japan and elsewhere in Asia. That may be because the region has less physical room for live pets, so children put their affection and nurturing skills into artificial life. It may also be because Japan is very densely populated and, as a result, fads spread very quickly.

Tamagotchis have gotten under our skin in the U.S. as well, though, as Windel's story illustrates. Wiedel initially got her Tamagotchi from a friend. The reason? The friend was going on a trip to Hawali and asked Wledel to babysit. "They were planning to go scuba diving, and they didn't know what they would do with it while they were underwater," Wiedel said. At the same time, Wiedel doesn't take the creature that seriously. She said she played with it for a while at work, then gave it to her nephew. "We had a Tamagotchi, now we've got a cat," Wiedel said of her and her husband, who accidentally overfed the Tamagotchi and caused it to die in its sleep. "We're working our way up to having a kid."

Despite their popularity, Tamagotchis

Francisco company, said, "Everybody has been talking about virtual pets and it's like, hello, we've been here since 1995." Not only has the company been around for two years, it has sold one million copies, far exceeding sales of other

computer-based virtual pets. The company is set to release the second generation of Dogz and Catz, which are far more sophisticated than the hand-held Tamagotchi. Like the Norms, Dogz and Catz are PC-based and feature a neural network, which dictates very basic drives, such as fetch, bee, or catch. The

pets eat, sleep, play with toys, demand attention, howl at the moon at night, get fat when they are overfed, and sad when they are under-loved. To be sure, Dogz and Catz can elicit some strong responses. Rvan Ramirez, a 25year-old music and sound engineer with Front Line Productions in Campbell, California, said he initially played with his dog Darth for about an hour a day. When he brought it home, his girlfriend took a real liking to it. "She won't let me squirt it with water," Ramirez said. "The dog squeals when you squirt it, and [my girlfriend]

gets really angry."

As the dust begins to clear from the initial virtual pet craze, companies like Fujitsu are beginning to experiment with different aspects of the technology such as voice control

ere Fin Fin.
Here Fin Fin.
Come eat to
play. Fin Fin, come here
and I'll give you a treat.
Fin Fin, I'll make you
into a handbay.
Fin Fin, get your
screenly bett eat here
before I burn you listo

dolohla näté.





**Emotional** 

Intelligence

Fujitsu's Fin Fin is a cross between a delphin and a bird and responds to the specific tone of the user's voice

Thes, suddenly, fin fin appears on the hartonic and files to a navigine the exact. The creature, and files to be navigine the exact. The creature, half delphin, half their, pertites and following the memoric. My virtual per than serviced, in thousy, file file has energial excepts these entroid, in thousy, file file has energial excepts after have entroid in those entroid in their moneyage therepairs have entroid in their hose state in the file of their services. The file of the fil

to be a second of the second o

saying, but it would respond differently." words you use when calling him, he nevertheless can serve as a barremeter of your emotional state. And thus Fin Fin has come to serve as something of a virtual mood ring. particularly in Japan. Executives there have been known to use fin fin as a source of relexation - when they have succeeded in calling out the creature, they know their tone of voice has calmed down, and they, in turn, are more relaxed. At the same time, Fin Fin has been known to go nots, and go into hiding, when the creature is loaded onto a computer in a loud, tense office surrounding, Fig Fig went on sale in Japan in June 1996, and as of June 1997, 30,000 capits sold for \$190 U.S. Fie Fie west on sale this spring in the U.S. for a different price and different target market - \$50 targeted to kids and young

Pis Fin exists on the Planet Teo, which, like Earth, has zo hour days, 265-day yeas, days and sights and weather changes. It addition to Pis Fin, the world has birds, insects, mamerals, amphibians, fish, and Fin Firth notional enemy — a crossore called a Ville, a cross between a woodly mammeth and a sieth.

The object of the game is quite single. The mon time you speak with File, not the investigate you speak with File, not the investigate with the properties of the constitution of the happy while forest, the factualing Tabab Woods, or the Water Index of the Secret link. When Erin Fire feets conditions, he will perform tricks, including sofeming, diving, and paring with the lease First.

he will not emerge as often, although he talk and respond to it less fearfully. No matter how were talk to fin fin, though, you carnot absolutely control whether he will respond. In this respect, "Fin Fin is more like a wild animal than a pet," Pontecorvo sald. A bio-scan meter clues you in to how Fin Fin is feeling, whether he is hangry, scared, or happy. Other features of the game allow you to call fin fin with a special whistle, feed him Lemo fruits, and take snapshots of him with a camera. Fujitsu Interactive said it spent \$950 million and more than five years developing Fin Fin. It advertises the same as the "most advanced form of artificial life available in entertains technology today." That remains a matter of debate among artificial life experts. What the experts will grant Fin Fin,

If you yell or speak harshiy to Fin Fig.

though, is that the product has made a marked foray into a reliability new area of Artificial twelligence known as emulation. Emulation is an effort to reproduce not pure intellect, that copisition and emotion. The concept is to convey a feel mig. which increasingly is considered a mojor component of intelligence, and certainly of life. A simple way to this known or control to the intelligence, and certainly of life. A simple way to this known or must have the interest mirrations have no made that the intelligence.

they are able to display and works entities, according to it respectives. The loss of shall people care above it animals people care above it animals are shall people care above it animals or assistantions or many of their filteriods. — Can they see entitles, can they see payings, can they see payings, can they see payings, can they see payings and losseph filteriod. The contributes price shall be caped to the contribute of the contributes of the

combination of professor of fine arts and

viewers - the animations are not alive, but

Perforcement emissions that ensalation efforts will remarkable in said together) by said together) where the emission of mathematical All is create products that before disfers the entire children of intelligence, Fer instance, Portocomon said, you might so some he able to ask your search engine bow it is furing on an atternet search. The engine could sell in faring a small with a smill, a shing, or a lock of confusion with a smill, a shing, or a lock of confusion to add a more emotion, burnan dimension to add a more emotion, burnan dimension to things," The said.

Comparing Pile Pile to Constants, San Macki, View president of sales and mustring for Fujitsu Interaction, said, "Theirs is more evolutionary auxis in more resolute based, have become a very clean personal filescoff in file and he becomes a close personal filescoff in file and he becomes a close personal filescoff or journ," he said. "Riefe bright to crosse the souther constant in your comparts. Fujits of the constant or a creature will be able to do what was introduced and mouse do for year."



kids weared on television, who have become livested in nonexisted creatures on TV. "It's sad when people's lives are so stell that they search for real human companionship in digital entities," SSSI asids, adding that urinal pets in tum do nothing to beach children real responsibility because they can be burned of fer "rebooted" when they de. "People are lazy, Tary like what is easy out a hold of and what sines them endower. starts when a player visits the hatchers, selects an egg, and takes it to the incubator. The Norms, which are a cross between an elf, a dog, and a deer, are hatched exhibiting basic behaviors — they play with toys, walk around, show curiosity, all with varying degrees of enthusiasm, depending on their distill arenes.

Beyond that, the player can't force the Norn to do anything, but can attempt to teach it by

"It's sad when people's lives are so sterile that they search for real human companionship in digital entities"

#### I'm OK, my pet's OK Researchers, philosophers, and same makers

suggest a handful of possible reasons that people are responding to virtual pets with ensolusion. Sherry Tutridi, an MIT professor who has extensively staided the feelings children have leaved their virtual pets, Tamagotchie in particular, said that kidds are reddriking their concept of "life" in conceptual egislate effectives. Turkle said that this has been happening for any tears, as computers became more subgistions, but that it has intensified in the

Turkes said that since virtual loys appear to diskips a sense of indiging that cannot contact himself that cannot contact himself and sense of indiging sense in sense of indiging sense in sense of indiging sense in sense in sense indiging sense in sense in sense indiging sense in sense in

Another theory used to explain the popularity of virtual pets is that they merely are an extension of our comfort level with television, movies, and videogames. We are acceptanted to seeing characters digitally, in two dimensions, and giving ourselves over to them emotionally. As a result, it isn't a big leap to treat, witual creatures with the affection one might ordinarity reserve for a living

At least one prominent author is very troubled by this concept, though, and about what it may say of our culture. Cilliford Stell, author of Sixon Smite Oil, believes the popularity of virtual pets demonstrates a continued stelligation of our culture, which he said puts too much emphasis on technology and not enough on solving real problems impacting real people.

He said that the popularity of these pets is further evidence that we are raising a generation of without the least responsibility." Despite his concern, Stoll said he believes the virtual pet fad will pass, just as the pet rock did any years earliet. "It's like the Stubik's cube and the lawa lamp, in a year or two, people will look at them and say," I'm not existing anothing and of his. "Stell said.

Stell is not alone in his views, but he appears. to be in the minority. A more widely held belief is that we are embracing virtual pets in the way we have always embraced inanimate objects. For example, we talk to our cars, our stuffed animals, and our favorite blankets when we are kids. We own dolls and lucky charms, even pet rocks. "Children have dolls and stuffed animals and imbue them with feelings and relationships," said Barbara Hayes-Roth, director of the virtual theater project at Stanford University, "There is a universal willingness to suspend disbelief and go with appearances, it's pleasurable - for kids and for adults." Furthermore, Haves-Roth said computers and computer-based life may provide a vastly more satisfying medium for relating to virtual creatures. There is one key reason for this: Computers are interactive. A virtual pet is like a stuffed animal, but it's also animated, acts somewhat autonomously. even talks back. Some digital pets are clearly more interactive than even a live pet fish, or lizard. Our interaction with these pea-brained creatures amounts to no more than watching them, dropping

food into their tank, and cleaning out the excrement, but we can grow quite attached. Finally, there is another theory as to why virtual nets have so dramatically continued our

virtual pets have so dramatically captured our imagination. It is perhaps the strangest possible reason of all — that these pets actually are alive. In this regard, possibly the best argument can be made for the Norn.

#### Creature Features

The CD-ROM Creatures, published by Mindscape, contains an animated woodsy world called AlbiaNornia, and six Norn eggs — three containing males and three containing females. The game



To begin the experience of Creatures the user must first choose an ext to hatch

reinforcing healthy behaviors and discouraging destructive ones. Reinforcement comes in the form of a tickle or a complianent, whereas admonition is conveyed with a light spanking or a verbal rebule. The Noms can also be taught simple language, how to recognize objects in the world, and simple concepts like "push", "pull," or "come." Nome can learn to uttee back charses like "coust. Push ball" or "elson to uttee back charses like "push ball" or "elson but the such scharses like "push ball" or "elson ball"

The scientists at Cybertife, the company that created the Norre, insist the creatures are not a gimmick and truly are capable of a form of learning. They said this is possible because the Norn coding



represents a radical departure from most gaming software. CyberLife said its codine is meant to mimic biologic and calls it Digital DNA, "We haven't used mirrors or strings," said Toby Simpson, general manager of Cybertife. "This is biologically accurate."

To understand the Norn coding, it is useful to

mutation, or new breeds of Norms. The random crossover feature has spawned

some rather unexpected mutations. There have been different colored Norns, Norns that performed more efficiently, and some that didn't turn out so well. One couple from Australia frantically emailed CyberLife earlier this year to report that they had



Where we are most certainly headed, though, is to a world of richer videogames with more believable characters, and these virtual pets are laying the groundwork for it

first understand how most gaming software is created. Very simply put, most software is built using elaborate versions of "IF/THEN" statements. "IF" this happens, "THEN" you react with this action. In contrast, the developers at Cyberlife said they have not preprogrammed the Norms' behavior, but their drives. For instance, the Norns are programmed to take care of certain basic needs. such as hunger, sex, loneliness, and being cold. "What the creature's brain is trying to do is to remember what actions it took to reduce those drive levels." Simpson said. "It is able to see for itself which actions worked and which didn't."

Simoson said the software dictates how 256 chemicals will react with one another inside a Nom. but it does not tell the Nom how to respond to the sum of those chemical reactions. The behavior is a natural product of the structure. The Norns also are able to breed, which takes place in the form of an extended kiss. What happens during that kiss - on a programming level - is very much analogous to what happens during breeding in actual life. When the creatures breed, they comingle their coding, or genes. Half of the baby Norn's coding comes from the father, half from the mother. "When they breed, we effectively line up the two digital DNA strands and take half from the mother and half from the father," Simpson said. However, the company has built in a random consequer feature, so the strands occasionally miss, which sets the stage for

bred a Norn that did not move upon birth. The couple emailed the Norn to CyberLife, which discovered, by putting the creature in a gene editor, that the genes from its mother and father Norns had rendered it deaf and blind

The file side is that the mutation can lead to advances in the creatures. For instance, one creature that is being traded on the Internet features the Highlander Gene, which represents an improvement in the Norn's chemical neural dynamics. "It has resulted in the creatures being better able to organize and store key events." Simpson said, "This breeding has helped us clean up the rough edges."

Not everyone is convinced. Richard Dawkins, a professor at Oxford University and one of the world's leading experts on evolution, told National Public Radio that while he believes Norns interact with human beings in an interesting way, they are more a curning Illusion than I vine beings, "I think there is something open-ended in the sense that these Creatures do reproduce; they have genetics," Dawkins told NPR. "That means they have potential. They have an evolution."

Of course, there is an element of unnatural selection at work, too. Namely human beings are able to select which creatures they want to breed, and which bloodlines they want to prosper. They even can begin to tinker with the life forms by changing the programming. A group of German

university students, for example, figured out where the gene boundaries were and started gene splicing. They spliced the genes of the Norn with that of its predatory, the Grundel, Suddenly, a creature called the Grunom has been popping up all over the internet.

#### Frankenstein and the future

In the book Do Androids Dream of Electric Sheep, Philip Dick wrote about a world in which it became so expensive to own pets that people began owning virtual pets. So lifelike were these creatures that the human beings wondered: Are they conscious? Are they alive? Are we headed in this direction too? Probably not in the near future.

Where we are most certainly headed, though, is to a world of richer videogames with more believable characters, and these virtual pets are laying the groundwork for it. In the multiplayer adverture games of the future, for instance, it may become difficult to tell the difference between a computer-generated character and an avatar that represents an actual player. The technology may also ascribe basic intelligence to our own avatars so that we, as players, only have to worry about higher functions.

The technology should find itself in the real world too. Already, some of the same researchers working on Al for earning are looking at more practical applications. Among their quests, researchers are looking to

create internet agents that not only search, but have a personality. Finally, for better or worse, we may also become willing to accept the digital creatures as exhibiting lifelike characteristics, whether or not those feelines are deserved. "People love characters," said Hayes-Roth from Stanford, "[AI] is a way to bring characters to life far beyond what's been done before."





Norms' world is chaotic and sometimes a dengarous one. The user must become familiar with po

BESIDES DANGER AND INTRIGUE,

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## ADVENTURE.



### TREASURESOINEEP

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## First aid for fainting

- · Act quickly to prevent the victim from falling.
- · If possible, have them put their head down or lie on the floor.
- · Loosen the victim's clothing and wipe their head with cool water.
- Do not try to revive the victim by throwing water on their face, shaking or slapping.
- · If the victim vomits, quickly put them in the recovery position.



As the victim revives, offer reassurance. Remind them that even the best gamers end up sucking face with the cement sooner or later. So whether it's Deathtrap Dungeon, Tomb Raider 2 or Fighting Force, be prepared for the inevitable. And never administer any first-aid to the victim without first saving their game.





## **Battlezone**

ctivision is a company with a strong sense of history, to say the least. Revemone classic franchises like Zork and Aitfall helped it. recover from Chapter-11 bankruptcy in the early '90s. Then, strateac rereleases from the company's back library provided essential cash while it made the difficult transition back to same publishing from the best-foreotten years when the

Can the company that mastered missionbased action with MechWarrior and I-76 add realtime strategy successfully to the formula?

Format:	PC	
Publisher:	Activision	
Developer:	Activision	
Release Date:	Q1 1998	



dabbled in everything from productivity software to music packages. It's no surprise then, that company

CEO Bobby Kotok has an almost superstitious belief that old titles can help sell new games. So when Activision began development on a futuristic 3D tank same. borrowing the title from Ed Rotberg's Battlezone seemed like the perfect fit, not the least because it immediately gave the team a high goal to shoot for Andrew Goldman, lead director, explains: "Battlezone was the first 3D game ever -it was revolutionary. We were like, "If we're going to do it again, it's got to be as revolutionary as it was 17 years ago. This game has to be a bigger breakthrough

than the original Santezone was." Judging from the work done so far. the team is well on its way to succeeding



The interaction between the drop down mans and the rader map anables total battlefield awareness, even in the midst of battle

strategy/action sim game, Activision has melded two disparate genres, created an original play-balancing/resourcemanagement scheme, and is implementing what may be the best

interface seen yet in a computer game. In short, the company is raising the bar it set with MechWerrior 2 and 1-76

#### "This game has to be a bigger breakthrough than the original"

The basic concept of the game will be familiar to anyone who knows about 300's forthcoming Uprising (although the team insists that Battlezone, in development 18 months, was conceived independently) - it's a realtime strategy game that puts the player not in the

standard role of backroom general, but directly on the field (in, appropriately, a tanki as a tactical commander responsible for both fighting and directing the allied forces

But if the game's going to take the Samezone name, why stray from the







original's successful formula? "The original Battlezone was action only," says Produces Mike Arkin. "Action alone doesn't out it 17 years later. But when you combine action with other genres, you get wildly fun and wildly successful - games. Action meets RPG, you get Diablo; action meets simulation, you get MechWarnor 2, action meets adventure, you get Tomb Raider. We said, 'OK, there is no action meets strategy yet." That's because of a design problem: if you start in the overhead, god's-eye mode, and you jump into a vehicle, you lose what's fun about C&C or Warcraft, in which as the situation changes, you change your strategy if you jump in one of your units, you lose that knowledge. But if you go the other way and jump from action to map view, you lose what's existing about action games, which is the immersion. I mean, what happens when

you go to map view? Does time stop, or can I still set shot at? That's no fun." The team's solution was to put the player in the tank, but the addition of a revolutionary interface enables nearly as much control over the strategic situation as players get in C&C. The player is the tactical battlefield commander, vulnerable

at all times, but the interface transparent, HUD-style drop down menus - enables players to manage resources and production without ever taking their eves off the battlefield.

What about the god's-eve view, which is key to playing a realtime strategy game? Enter the radar screen. Radar was key in the original Battlezone, and it's even more important here. The team has

implemented a radical 3D topographical bartlefield radar map that may be the most impressive new game feature Next Generation has seen in months, with it,



ough they will fly cheerfully to their deaths if so ordered

players - without being distracted from the immediate action in front of them -have a clear view of the 3D hattlefield and the locations and types of friendly and







(known) enemy units. The importance of this radar cannot be overstated; even at the early stage at which NG saw the game, it is clear that Activision has gotten it 100% right. The amount of situational awareness the radar enables is enormous.

The game's resource strategy is also impressive, and it ties in with the backstory in such a strong manner that Activision seems well on its way before with F76, and now with Battlezone, to establishing itself as perhaps the first company ever to make gamers really care about the story in an action game. "When JFK said we'd be on the moon before 1970, he was lying," says Arkin, "When Neil Armstrong made 'one great step for mankind," the dark side of the moon was a massive battlefield. littered with the wreckage of U.S. and Soviet warcraft." The idea is that both the Soviets and Americans became aware, in the '60s (and possibly earlier, via the Roswell crash), of

#### "When JFK said we'd be on the moon before 1970, he was lying"

an amazing alien metal, which could be formed into almost anything The metal also has amazing memory properties. Find a piece that was originally part of a huge mech-style walker, and you can build a new walker. This resource, known as "scrap" litters many of the planets and moons in the solar system, remnants of an ancient alien war, and provides the building material for U.S. and Soviet spacebased war machines. "That's what the real space race was about -- getting scrap," adds Arkin, continuing to explain that the mission-based game, which takes place across eight bodies in the solar system, features a very hot war between the

story, however Goldman explains, "There're two ways to get scrap. You can



Vehicle design is based in part on classic military styles (note multipaned cocknit, above), initially the U.S. has the technology edge

find a (and possibly discover a new type of unit to make in the process, as in the mech example, above), or you can destroy an enemy unit and collect it. There's a very viable strategy in C&C, which is to wait for your enemies to kill each other, quietly collecting Tiberium. That doesn't work here Battlezone is an action game If you want resources, you really need to go fight for them. And the more you fight, the more you're rewarded with scrap for your scavenger units to recover." Scrap also



Overheating can be a problem for the ships - one exacerbated by lava (far left). Scrap litters the surface at the start of each mission, but is quickly scavenged







provides an innovative play-balance mechanism. "If I'm dominating a mission, and I come to finally attack your base, anything you kill of mine is going to be right there, easy pickings for your scavengers to take back to your recycler unit So the balance of power can shift quite quickly," says Arkin. "To win, brute force is really not enough, you need to have some finesse, too."

The game's other important resource is pilots Scrap is recyclable, humans aren't, so players will need to ensure that not too many of their co-pilots get shot.

#### The experience of being shot down ... can be truly terrifying

down, and if they are, they get rescued. "You can kill the pilots, who eject when their ships are destroyed," says Arkin. "It's really fun to run them down "The experience of getting shot down yourself is not - suddenly losing radar and the ability to communicate with base, or the ability to move faster than a brisk walk can be a truly terrifying experience. Players can hop into any friendly vehicle to escape, but if they are hit before that. they die and the game is over. The team is experimenting with co-pilot stats, but is not yet sure if that feature will find its way into the same. If having individualized copilots works, we'll leave it in," says Arkin, The same will of course, feature

numerous multiplayer options, over IPX

and TCPAP although exact details (other than that it would definitely be supported on Activision's new Battle Net-like service) have yet to be worked out "In a sense. though," Arkin says, "even the singleplayer same is multiplayer, in that it's really like playing a human " He's referring to the game's Ai, which was lifted directly from Josh Resnick's impressive Dark Reign, "We focused on the intelligence, not the artificial," he guips, explaining that the game has no scripted Al routines. "The Al plays just like the player - it needs to search the battlefield for your base, and it may adopt different strategies depending on a variety of factors." A mission should never play the same way twice - bases are located randomly (and can be picked up and moved as the front lines shift), and the Al's strategy is rarely the same twice. "There's never a situation where you're like, 'Oh, there's always an enemy over that ridge in this level," says Goldman.

The game's graphics are also impressive. The screens here are all software, but the game will support at least D3D and 3Dfx out of the box. The





Battlezone will include the same powerful terrain and mission creator that Activision is using to create the geme





high-resolution nature of the game soft just pretty it's essential to enable the initiative to concide with the action. Could the game be done on PlaySistion or Mineraldo 42P Poblickly but connecting the interface — the part that makes the combination of strategy and action possible — may not be possible without reordering the action area of the screen so small that is becomes unusable.

The terrain is all fully transformable bombs create craters (which are useful for hiding turrets in, by the ways and special care has been taken to ensure that the vehicles fit with the era the game is set in. At least at first, "As you get further in the game," says Goldman, "you get further from Earth, and we're trying to convey a sense of order breaking down, kind of a Heart of Darkness or Apocalypse Now situation." He goes on to explain that weapons tech, which evolves down a fairly complicated technology tree, originally resembles terrestrial hardware, but grows steadily more alien (and more vicious) as the same wears on. In fact, the story we've seen hints that as players set closer to the end of the game, certain assumptions they've held about who the real enemy is and what their real goals.

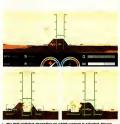
The success or failure of the game vill ultimately come down to faile game will filely belancing. Although the game will filely be failure, and must game will filely made an artificiple reoperation (even files of chamber was fail with four people), for the game to truly like up to the designers' visering, particularly with the designers' visering, particularly with meaning public below. I will need made for the man the world by short action and strongly wide for which a tradever concentration on one or the other hands one of the other with pully all successful.

should be become less clear

Given Activision's previous successes with mission-based games, we think the team has a very good chance of pulling it off.



Missions are up to 25 square kilometers, but ection heppens close in



can jump into nonmobile turrets to take en ective role in defense



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## Rare



iker the squirrel surveys a number of environments on hi est to collect nuts

Hoping to create another Donkey Kong Country craze, the British developers bring us ... Mario 64 clones?



sidening the astronomical success of Super Mario 64. It was only a matter of time

before developers attempted to imitate



The game sets a new benchmark for Nintendo 64 graphics

> fall short of the near-perfection that defined Marin

So, news that the well-respected Nintendo second party Rare is planning to release two similar games should be cause for celebration, right? Then why are so many puncits down on the concept? Rare's Tim Stamper replies to critics this way. "Mano 64 was the first game of its type on the new system that incorporated a complete 3D environment, So to say that Barrio-Kazoove and Conker's Quest are copycat titles is like looking at the first platform game and asking if the thousands that have been produced since then are exactly the same. Mario put the game design peg

way out in the distance; it'll take many companies years to catch up with this." Baryo-Kazoole, due this fall, certainly bears a few similarities to Mario,



Mario, as well. Players initially control Banjo (a backpack-toting bear), but are encouraged to change to Kazopie (a bird residing in said backpado when the need anses. This isn't just for the sake of variety - certain areas require the use of Kazooie's flying powers. The player will also be able to morph into other characters, and the sameplay should be

Conker's Ovest, where players take on the role of sourcel the has a female sidekick as well. Bern), looks similar to Baryo, at least superficially, but Stamper explains that they are actually quite different. "Conker uses advanced character animation and Al to assist the player in their quest. Ason is a unique twin-character game, utilizing extreme player control. (When you play them),

more puzzle-based than Mario's pure



theoming titles will



by totally separate teams. Quest ups the level of detail on the game's characters, as well. While Mano was limited to the same wide-eyed. dumblounded expression throughout his adventure, thanks to Rare, Conker can exhibit a wide range of expressions, and even emotions. The game truly sets a new benchmark for Nintendo 64 graphics "Our teams' expertise allow us to really stretch the 3D capability so characters and scenes look as real as possible." explains Stamper. "We also are the first to really create 'emotion' - you can tell when a character is happy, sad, nervous, etc. Conker's Quest will be the first game. to really exhibit this."

in many gamers' minds, the Donkey Kong Country series (Stamper assures us



The levels in Benjo feeture e similer structure to those in Mario, b abundent rich textures make for more realistic-looking terrain

it will be "exploding onto N64 soon") is second only to Mario in the paritheon of side-scrollers. Now Rare is applying the

## sade-crollers. Now have is applying the skill developed exploiting one genre "We are the first to really create 'emotion"

Tim Stamper, Street of

created by Miyamoto to exploit another So it should not come as a surprise that where other companies have tried and failed (Epoch's Doraemon, for example), Rare is using its expenence to produce two titles that should provide plenty of innovation in play, if not in overall look or control. Think about it - the sidescrolling standards set by Mano changed little on 8- and 16-bit systems, but not all side-scrollers were alike. Only time will tell which of the two is better received, but either way - especially given Rare's track record in making titles that appeal to a wide range of players - N64 owners will wn.











Using its Donkey Kong exparience, Rere tries to produce two more winners

It's to a human wha





headlights are to a deer.



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## Yoshi's Story 64





he original Yoshi's Island for Super NES was one of the 16-bit era's grand final moments. Rivaling the Mario series that spawned it, this game starred dinosaur Yoshi in what was simply the last word in 16-bit sidescrolling action, it's also a game whose Intricate design and dead-on play mechanics allowed the system to be retired gracefully, and with great.

offertion With all the 3D updates of classic Nintendo franchises on the way however, it is perhaps somewhat surprising that Mano's fathful steed would be denied his own trendy polygon conversion - Yoshi's Story is a sprite-based, side-scrolling action title. Only one other 2D title exists for the system - Erior's Yuke Yuke Troublemakers (see review this issue) yet if one can simply accept the 20 decision (Nintendo claims 2.50, more on this in a moment), it becomes clear that even at this stage of production, there seems little to complain about as far as YoshV's Story's graphics and gameplay are

The same boasts some of the prethest pastel color schemes ever offered in a game. Some screens appear to have the prerendered gloss that graced the Donkey Kong Country series, yet others seem to feature graciously

A Super NES classic makes its way into the world of 64-bit gaming

Format:	Nintendo 64
Publisher:	Nintendo
Developer:	Nintendo
Release Date:	Winter 1997
Origin:	Japan

colorful hand-drawn art. The graphics are a natural extension of the onemal's humorous, cute approach, and should appeal to the game's intended younger aurhence

The game's level design includes generous helpings of mechanics found in the original, including warps, multiple worlds, and the coin stages that proved so popular. Nimendo has labeled the game "2.50," and while exactly what this entails hadn't been elaborated on as of press time, it's possible this would mean the ability to move between foreground and background planes. Regardless, the game boasts some gigantic bosses, which impressively spit fire, shoot out

their tongues, and perform any other

find an audience here as well.

strange attack one can think of The decision to release a 2D game on a heavily 3D system seems less odd in light of the strong, Impering popularity of 20 games in Japan. Given the popularity of the original Yoshi's Island here in the U.S., Yosh's Story will doubtless









idered gloss that graced the Donkey Kong Country se

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PHILIPS MAGNAVOX Let's make things better

Yet another Nintendo classic makes its way to a 64-bit universe - on cart if not on disk



ne of the most easerly awaited titles for N64 appears to be finally nearing release. Originally slated to be the killer app of Nintendo's upcoming 64DD disk drive. Zelda 64 will instead appear first as a cart-based product (and most Reely become the main focus of Nintendo's media and advertising bitz this holiday seasont.

Set in Hyrule, the same world as the one in the previous adventures of Link. Zeida 64 preserves many of the series' signature elements, Once again, Gannon has returned, he is once again after the fabled Tri-force, and it seems that Princess Zelda is once again in need of rescuing. As before, players can expect Link to be armed with a sword, bow, boomerang, hookshot, and many of his other

traditional weapons, and players will again



meet characters. Riva, Stalfoss, Dodongo Jr., and the nest 2015 64 will even see a return of Hyrule's peculiar breed of veneeful chickens. What is different

is the true 30

environment Link finds himself in, and the same's generally more serious tone. Link himself benefits from added detail and complex facial expressions, appearing not only more realistic, but older and more mature. The traditional Heart Container bar has been enhanced by a graduated color scheme whereby the color of Link's.

#### It seems that Princess Zelda is once again in need of rescuing

armor and weapon indicates his relative health and overall offensive power. New areas include the Mystery Palace and the Fairy Tree, and conversations with NPCs will be even more important than in previous Zeida games, Although early speculation that this would be accomplished wa voice samples now seems less likely due to cart storage limitations, this may be a new feature when the game later releases on 6400,

whenever the drive becomes available. The legions of fans Shigeru Mivemoto's action/RPG series has samered over the years have been patient for a 64-bit sequel, it appears Zeida 64 will be worth the weit.













## F-Zero 64



It's all in 30, but F-Zero 44 sti

ed over seven years aso. the original F-Zero for Super NES was one of the first "gee whiz" titles for the system. Showcasing the SNES' toom to be grossly overused. Mode 7 scrolling, the little racing game that could was oute, fast, and above all, addictive. Changes are if you bought into the system early you owned a copy

#### The new 3D tracks feature half pipes and loops



its 64-bit successor was announced almost as soon as the hardware was finalized, yet in the wake (no pun intended) of the smashing Wave Race 64 (OK, pun intended) and the hella fun San Francisco Rush, it will have to be a tremendous race experience indeed to make a dent in the increasingly growded N64 racing pantheon. Yet F-Zero 64 has one thing sping for it that few other titles. in its genre have, the guiding hand of Shigery Miyamoto

While updated for a fully 3D environment, the game's hovercraft designs remain faithful to the original, although F-Zero 64 doubles the number initially selectable from four to eight. The machines have been siven some

Still one more SNES classic comes to Nintendo 64 — getting the picture vet?





Format:	Nintendo 64	
Publisher:	Nintendo	
Developer:	Nintendo	
Release Date:	December 1997	
Origin:	Japan	

improvements in order to cope with the new 3D tracks' occasional half pipes and loops, which complement the springboards and ramps that have been carried over from the original. As of this writing the types and length of the circuits that dwde up the same's 20 different courses have yet to be announced. However, F-Zero 64 will include a two-player battle mode as wellas time-attack modes.

The original F-Zero had a clear influence on such latter day classics as Psygnosis' WipeOut series, which took its own spin on hovercraft vehicle racing Can F-Zero 64 take the grown back from its 32-bit cousin? The proof, as always, will be in the playing.



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## Quake 2

The hottest multiplayer game in the world gets a sequel, but is it just Doom VI?





he release of Doom it in 1994 was one of the most unnoticed letdowns of the garning world. The sprinkling of a few new enemies and one new weapon were enough to give Doom junkles their fix, but the game was a mere baby step forward in every way Now Ouake 2 appears to have finally broken id's sophomore jink, with so many improvements over the original that, for once, the two games look markedly

The baggest difference is the graphics. The engine has been given a boost by John Carmack's coding wizardry, allowing for many features that were noticeably absent from Quake. Most notable among these is the increased polygon count; each enemy is now composed of more than 600 polygons, compared to the original's 150. Id has also included realtime dynamic light sourcing, shadows,

Format:	PC
Publisher:	Activision
Developer:	Id Software

and transparences.

Another welcome change is the addition of high-color graphics. Gone are the drab repetitive levels and omnipresent. muddy earth tones of the original; in their place are environments laced with vibrant colors, made all the more impressive with the OpenGL-based engine.

The expectations for Quake 2 are even higher than those leveled at Doom #. but if there's anything to is known for, it is advancing the first-person shoot-'em-up. Even with the loss of John Romero and several other key designers, and the presence of some top-quality competitors in the next year, it will be tough to

## **Kalisto**

One of France's premier development houses reveals superb 3D action with The Fifth Element and Nightmare Creatures



Even at this early stage in the game, these Playstatic screen-shots attest to the sophisticated polygonal models and animations used to create The Fifth siement's player character and enemies

elphine recently did it with Akcoo Racer, Cryo (NG 32) appears to be doing it with Dreams, and now kalasto certainly appears to be did with Nightmace Creatures and The Fifth Element. Each of these French developers are producing vasually exciting 30 games — complete with gamplay. Kal

1990 under the name Arred Concept. The company developed several 16-bit thies, including Pase in Time and Al Uniser II. Racing, For two years, between 1994 and 1996, the company became Mindscape Bordeaux, until a spitt among the partners prompted the current president, Neclas Gaurne, to buy it back.

Under the new Malsto monities, the company went on to develop the fortnooming Dark Earth (Nd 18), a PC RPG, and Ultimate Race, the ancade racing game bundled this year with Power VR boards. While these state-of-the-art tibles have garriered their share of attention, the company's greatest strength may be in its company's greatest strength may be in its LibSys tool, a proprietary 3D development program five years in the making. The first two LibSys games, Nightmare Creatures and The Fifth Dement, appear to have what it takes to keep Tomb Raider from getting lonely in the 3D action/adventure category.

With Nightmare Creatures (see bound), the company got as first chance to test biblys, which, among other effects, provides the game with true 30 figs for PlayStation. However, Lifeys as more than a console development tool; ance it's being used to develop the Fifth Element in tandem for PlayStation and Power Viraccelenated Tot.

The Fifth Element is more than just a move license to Kalisto. "We didn't buy a license," says Josh Dawdson of Kalisto's Los Angeles division, "we gained a

The partner Davidson refers to is the French entertainment company Gaumoni; which produced the film and assisted in the same's design. Having shown more





than just a token interest in the product. the Kalisto/Gaumont partnership suggests ties that may lead to future projects.

Based on the film's sor-fi plot, the game takes place 250 years in the future. where the player must stop a comet. containing an all-powerful evil from reaching Earth. The player chooses to be either the alien sirl Leeloo (pictured in these screens) or earthling Korben Dallas. whose character has not ver been implemented into the game but should bear a likeness to Bruce Willis, who played the role in the film

On the surface, the game is similar to Mightmare Creatures. From the thirdperson personctive, the player will engage 16 different enemies in a total of 15 levels. However, while Mightmane Creatures presents players with an antiquated monster-filled London. The Fifth Element offers sci-fi environments, such as New York City circa 2413. And the tone, of course, leans more towards in same

The gameplay has also undergone several changes. While a reliance on hand-to-hand combat is necessary for Nahtmare Creatures. The Fifth Element presents range weapons as the primary form of attack, and offers a vanety of deeper puzzles as well. "They're not pull-

humor than gothic horror

every-lever puzzles," Davidson explains Objects have multiple effects on each other, and players will need to uncover proper sequences of actions, other timebased puzzles will also add to the same's intensity

Technically, the engine hasn't been retuned and will maintain the 30fps rate. But Kalisto has added more motioncapture animation to the characters and shared vertice modeling in animation. which is the company's version of the skinned joint system seen recently in the dinosaurs in the 32-bit Lost World game Having had experience with Neghtriare Greatures, Davidson says the level designers are getting improved visuals. just from knowing better how to mix the lighting and textures

more immersive worlds." Kalisto is practicing what it preaches. The publishers' war for the company's recent titles suggests Kalisto can certainly continue its own strategic product development while the but distributors outbid each other for the nghits Considering no publisher has

been announced yet for The Fifth

Element, they are probably

doing just that,

While the mantra at many development houses may be "building







The player is armed with a blaster, so the combat is projectile-based — but hand-to-hand attacks will become necessary in close quarters

### Nightmare Creatures





The first vession of calcular 30 engine can be seen in this gather horizon adverture that beness the size of the exploration of him States with the hand-or-hand commot of Perifect Meapon— eithough, unlike Perifect Weapon, the fighting here will be present district and commot well in so nearly finished state, the gamels dark environments, superhier building music, and mentelses that pop out of put stook or environments. Superhier about the put should be environments, superhier building music, and mentelses that pop out of put should be environments. Superhier assemble of the same level of the same le

Set in London during the 19th century, players must single-handedly defect an army of unholy orestures that have been summoned to the city by an evil brotherhood Players choose between Nacla, a guickmoving master of the sword, and knalbus, a

powerfar more wern a hurs-ining steff From a time person view, the player travenses London in the course of 18 levels and better its Travenses from famer-spatring inthinunts to wriged branches. Many power and, such its procks, greaded, and freeze spots, are found introughout fin garme, the part of the process of the process of the London spots of the process of the processor technically at prescripping collabora detection system enables enemy approvidage to be troken of 19 the player, doubgrag or the contraction of the process of the contraction of the processor of the processor technically at prescripping collabora detection system enables enemy approvidage to be troken of 19 the player, during a first or the processor of processor processor of processor of processor of processor of proces

satisfying yet gory touch to the gameplay Acquired by Activision just before E3, the PlayStation version (shown here) is scheduled to ship at the end of October, a PC version is in production for '98



(top right). In moments of crisis, player can resort to the pistol (above center)





Players dismember enemies, such as the leg of this snow beast (left), and cast freeze spells, effectively used on this bat-creature (right)

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scenarios, lavuh cumpaigus, randomly generated maps, and, an expansive scenario editor make it a new chillenge each time you play. Add in the rich 3 D graphics where you'll see every (Ihming arrow, marching phalans, and charging

war elephant, and the pressure to win becomes downright intense.



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## **I-War**



The axotic spacecraft dasigns desarve high marks for originality. The artists have worked long and hard to ansure an organic appearance

t could be "Babylan S" it could almost be "Star Test," but for the unfamiliar vessels. The intro sociance to Particle Systems I-Mar is world-dates in every sanse. As the sequence rolls, surlight streams through the clouds of a detert planet, showing a huge tower most lark releft Sastillayd drift — islands in a see of space alive with nebulse, different surbeams, and

Format:	PC
Publisher:	Ocean
Developer:	Particle Systems
Release Date:	TBA
Origin:	U.K.

multicolored light. It's a spectacle that screams move quality.

Septificately, the Sheffield England based collection for produced it is confident that its talents extend from beyond matering the use of Lightens of their previously rectal failing. With viril stap also the sold of Wing Commander. Perplandy (sheep suppl.) With all stap also the sold of Wing Commander. Perplandy (sheep suppl.) With all stap also the sold of Wing Commander. Income suppl. In sold of the sold of the company for start suppl. In confidence for suppl. Sept. Sep The space-based shoot-out has been a staple component of gamers' diets ever since *Elite* loomed large in the early '80s. However, they've rarely looked this good



espite utilizing Argonaut's much-malignad ERandar technology. FWar is sually improvely: Usaful massages scroll unohtrustyaly during action

may find this arm just a little unrealistic.

"In some ways at a," concedes
Michael Powel, Parkick Systems
managing director. The third you have to
remember, though, a what we're
interested in is making a botter game, and
we bellow wite doing that if we get the
marketing right, and really just the game,
then there's no reason why I-War can't be
seen as a support alternative to a riche
seen as a support alternative to a

that has, after all, become pretty stale? Centaling, with the basis of liciberts from Chipp they year (let's created a new company) that will public under the Microsoft barreal; the continued success or the Wing Commondry summes anything but assumed but their since the port of the dedicated beam vioring all focus to make in their the beams game. The Contamination product to brind the game may well be guinting for CR, but related as to could be making the comtraction of the contraction of the product any could be preferred to the could be preferred to the could be contained to the product of contained the program of the contained to the contraction of the contained to the contained contained the program of the contained to the contained the contained to the contained the

detail of a so-fi movie.
The movie analogy is particularly apt.





The geme's graphics are fluid, even on a low-end portium



Though mission-based, FWar boasts a strong plot that drives the action, and though not guite a "wrtual battlefield," the plot will be affected by the player's performance in the field. In short, the player is the captain of a Commonwealth Navy vessel, patrolling space, ever ready for a guernilla attack from the Independents, former Commonwealth groups now demanding their independence. This war of attrition has been on the boil for more than a hundred years, and appears to be reaching some kind of a climax. Thus, every wrong for right) move the player makes in a perticular mission has a direct effect on the events that take place in the following level. For example, failure to close a supply route will lead to stronger resistance next. time around, and so on. This provides a

certain amount of open-ended play without compromising the steady buildup

of missions. The cinematic mood is perpetuated further by an innovative menu system that relies not on indecipherable icons but instead on a detailed 30 model of the ship's bridge. As the captain of a spacebased Navy vessel, the player must interact with the bridge crew and issue commands, as well as engage in the more familiar doglights. The bridge appears as a navigable render, complete with pilot, gunner, and engineer, each of whom can be individually controlled. For depth, there are the intricate machinations of the engineering section to grapple with, including shield ratios, power output, damage repair, and a number of other, more technical problems. As captain, the player can issue orders or become involved at the lowest level. The same, of course, applies to the gunner and the pilot, though most players, the team at Particle expects, will play the game as a straight shoot-'em-up, and there's likely to be

much to admine in that department. After most breathsking intro, players southly worth hisplessly as bouildfull streamed visual as uncerestimations yealized with disappointing in-jamile graphics. Not so with Mater Harvery Particle has decided not to embrace the 2D card republish this stage. It's not that the team is unimpressed by the lates PC technology. but that Harver conce less time without is the stage. It's not once less time without is the properties of the stage of the stage.

"The cards do add effects, such as filtering, which would look rice," says Particle's Rich Aidley, "but as it is, our engine is smooth enough and our



Although much of the game involves spece combet, i-wur contains enough detail, such as this tactical display, to immerse the pleyer







texturing of a high enough standard not to need them."

After following the progress of PC 3D cards over the past 12 months, Next Generation is understandably skeptical about such a claim. Looking at AWar in motion, however, it's clear that Aidley's boast is not an idle one. Though unoptimized, the 3D engine runs at a smooth 30fps on a high-end Pentium. And although the game lacks the texture filtering a 3D card can afford, the spacecraft rarely pixelate, even at extremely close range. For those who FX Righter, it will come as a surprise to know that I-War is driven by the same

remember Angonaut's clumsy beat-'em-up core technology - BRender "BRender has had a lot of bad press, but it's really not that bad," says Powell.

"It's a realtime 3D modeller that has allowed us to construct the AWar environment quickly, saving us the hassle of writing our own system. We'd be at. least six months behind if we hadn't used it. The reason that the same looks nothing like FX Fighter, with that awful muddy texturing, is firstly because we have such talented artists and secondly because we've only used BRender for the basics That's what it's good at "

By basics, Powell means the polygon models. The standard practice with

BRender thus far has been to create the models and then use Deant and BRender's own code to map and scale them. The FWar developers took a different approach. They wrote their own. low-level routines for texturing and used scaled-down, high-quality renders as the basis for the texture maps, it may sound piecameal, but using textures created in super high-res renders means that they bear the same characteristics as the ongmais, only on a smaller scale --characteristics such as metallic effects. specular lighting, and curved surfaces, all of which are impossible to recreate using a flat tile. The end result is not empty space with fuzzy-looking ships, but a crowded scene full of metallic, gleaming, detailed ships that bear a fair resemblance to those seen gliding out of the intro.

Because of its space setting, the FWar engine is free to generate complex models





e Star Trek

"Babyion 5"-style rende illustrate the sci-fi plot I-War

and effects, and not get bagged down with horizons and pop-up. Clouds of polygon-based nebulies give the view color, specular lighting effects highlight the curves and gleaming metal of the hany vesses, and dynamic colored lighting from ed moons denotes the space stations. I War is a visual treat, but it's a treat for one "For the seouls, we'll be

concentrating on network playability: says powelf, "but we wanted to design AMar as a single-player opportence. All the best games, like Zelds and Amaro, have been single-player, and if you my to design for multiplayer, it can sometimes be at the opported of the single-player weeks. In A-Mar, the player is a line here, against the odds within is how a should be.

it may not be fashionable, but it's an

encouraging sentiment. In lect, with is shuming of the 30 crists, lack of shuming of the 30 crists, lack of multiplayer support, and the even more shows also of 16 sits actions, 1449 may seen files something of a throatbook to less duthered times but the fact termains that Peralos Systems has steril enough to spare, and with 15 doughed determination to better, but be totally unlike 1449/19 persit, showd the a trove man who'd bet against the game making waves.









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# **Get Voodoo**.











though 30fx has had its ups and downs lately, the Voodoo chipset has certainly grabbed a hefty percentage of the PC garning community's mindshare. Raider began life as a 30tx demo but has since taken on a life of its own. A 3D shooter with action both in space and on a number of different planets, the game hides some impressive technology under its deceptively simple surface.

"We've played and enjoyed all the great 3D PC shooters of the past few years," says Chris Green, Raider's producer and co-founder of Leaping Lizard, "but our main inspirations are the classic arcade games, like Space Harrier, Stargate, and others, if we can reproduce some of the fun we had

# Raider

Startup Leaping Lizard Software has a fully accelerated 3D shooter ready to go - now all it needs is a publisher



	Formet:	PC
	Publisher:	TBA
	Developer:	Leaping Lizard
	Release Date:	TBA
	Origin.	II ¢















fighting to e plenet's surface, followed by series of missions

playing these games as teenagers, but with modern technology and our own 3D look and feel, then we will be happy."

look and sell, then we will be nappy.

As one might expect, Raider will support Voodoo-based dan'ted will support Voodoo-based dan'ted the support Voodoo-based dan'ted will be not to the support Voodoo-based dan'ted of data! depending on the user's hardware. It currently runs at a pretty even 30Hz on a Penthum 30 with a 30Kz out," says Green. "Faster mechanics also run at 36kz but with the level of graphics datal automatically uncreased."

From the very beginning Relater was designed for methor; kely over either LAR or TCVPP connections, with both team play and does must be mode. During the course of the game, players and tokens by either faming them actual the landscape or scoring a manual of the landscape or scoring a contrain number of position. These toleration that the reddenment between stagger and the landscape of scoring a land or the scoring out that he reddenmed between stagger that he light keep herbox; flay interesting over time, since each player's ship can be different with seath mission.

At press time, leaguing uzard was shopping for a publisher. The developers also have a number of small details for example, how many messions the game will includely set to work out. It's fair to say, however, that Raider is well on its way to bringing furn to a PC screen near you.



The game supports IPX and TCP/IP network play out of the box — once it gets a publisher



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## **Dead** or Alive



Can it be? Tecmo's Model 2 fighter comes to Saturn — and PlayStation



hough it was not warfely distributed in the U.S., Dead or Alive remains a fairly popular arcade title it was the first Model 2 game released by a third party in Japan in 1996, and as a fairly realistic fighter, has often been compared to Wrtus Fighter 2. The

### PlayStation's strong market position inspired its own version

Model 2 design made the Saturn conversion retural, but a PlayStation version is also in the works - the first time a game designed for Sega arcade hardware has made it to the system. Dead or Alive is quite similar to Virtua Righter 2, which attests to the

Format:	PlayStation, Saturn	-
Publisher:	Tecmo	_
Developer:	Tecmo	7
Release Date:	Fall 1997	_

Japan

Origin: game's quality. But Dead or Alive also brings frome some of its own original

As in Virtua Fighter 2, all matches take place in an arena. However, Tecmo has added an area surrounding the edge of the ring called the "danger zone." Should players enter this zone, they will incur damage by triggering explosive ground tiles. This enables players to do even more with the "ring out" strategy of forcing apponents to the perimeter of the ring Also, as in Virtua Flighter 3, players









have an evade button at their disposal, enabling characters to avoid and not just block an attack.

Because Saturn does not offer as high a performance as the Model 2, developers compensate for the lack of polygons by using some Goursuud shading not available on Model 21, resulting in fairly sharp characters that argusbly will look not than those in the arcade game. Dead or Alive will expand upon the

Dead or Alive will expand upon the arcade version, offering some new CS moves for Saturn, and more than likely, the same clips will be used for the PlayStation version as well.

As one can ascertain from these screen-shots, Tecmo appears to have Dead or Alive conversions on par with ports of recent Namico and Sega arcade fighters. It will certainly spice up the Physbation software bispay with a game



Only one PlayStation screen shot was available, but this early scre suggests the character detail will equal that in the Saturn version

whose style is currently available to Saturn owners only. And for Saturn owners? Saturn containly has its share of quality lighters, but as title-stanved as the system has become, any credible game is worthy fare.







## Scenario B



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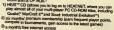
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# Alien vs. Predator



One of the best Jaguar titles is back, rebuilt, and looking great



Whether players encounter humans, allens, or predators, the action is intense. The leap from sprites to polygons is very well-executed

Format:	PC, PlayStation, Saturn
Publisher:	Fox Interactive
Developer:	Rebellion Development
Release Date:	Spring 1998
0.00	11.0

tan's ill-fated "64-bit" system had a dearth of A titles, but the few that existed were remarkable. Tempest 2000 was excellent,

and Allen is. Produtor view just as good.

Now, Rebellion is wisely moving the game to more wable systems, and from what.

Next Generation has seen so far, it could have the best console shoot-fem-up yet on its brants.

Paul Provenzano, executive director of product development for AVP, assures us that the game is not only completely rebuilt, but even better than its predecessor.

We don't use any code from the laguar game," Provinciano says, "The only thing we book from the original was the slotiny to play as the marine, after, or predator, it's a significantly different engine, and it's a completely 30 world." This enables such interesting features as running along the walls or ceilings as the alian, as well as welcome additions such as crouching, and an adjustable vewpoint. The three characters don't just have

different HLDs: Their methods of attack are different, their weaponry is different, and their mobisions are different in multiplayer games, any combination of creature is possible. Matchies of seven alters versus one marine could be quite common. Rebellion is even supporting Plastation's link cable.

First-person shoot-tem-ups have not fared all that well on consoles, so it's rather ironic that one of the best is on a long-dead system. Hopefully the new Aleri vs. Predator will lead the way towards the next level.



Ambient, low-lev lighting conveys mood of the gam





This game rips asphalt.
White-knuckle the wheel
and feel those raw
nerves pulse. 230 mph.
Crashes so realistic,
you'll beg for salve. Add a



little split-screen action so you can taunt your friends. Formula 1 has been reborn. Grab hold, Pierre. The back of your neck is going for a ride.

FORMULAS!

Sociol Charplastly Editor poor

WWW.psygnesis.com

# Fly by Wire

onsidering the test of bizzare but this missing waves on PlayGration recordly (Plangua) of PlayGration recordly (Plangua) or PlayGration recordly (Plangua) or the Rapper, Montaire Rancher, End of the Sunit, it was only a matter of time before the ring of bizzare but full matter to ring of bizzare to it RayGration, MOK, Clarithworm just let the distinctive fingersent on PlayGration and/or markets. Visc. Date Party, which provides the play back's caused warmor, it book again, and this time, the finiting to ... a radio-controlled helicrophic?

Format:	PlayStation, PC	
Publisher:	Interplay	
Developer:	Shiny Entertainment	
Release Date:	TBA	
Origin:	U.S.	

"I decided to do Fil by Wife", Penry explains, "in order to prove that new gennes of games can be developed, and all that crap about "t has to be like Doom" or "it has to be a fighting game" is not only wrong, but just an excuse for companies to keep feeding us the same old stuff."

"The same old stuff" certainly



Once control of the helicopter is mastered, flying the stunt courses is an exercise in fun. This course is among the easiest, so study it well

Dave Perry turns an expensive hobby into one hell of an addictive game



desert spayly or this game. In Fly by Wher, players plice a said-controlled helicopter, Plau, it is the first PlayStation game to readly take advantage of the dual analog pad. And what better way is there to use the new porpheric than to turn it into something almost every lid has held at one point in flor or he Files an RC pad. The Sony dual analog controllers the best handhold desert or controllers the best handhold show or something the state of the plant see that the probability of the that psychia distant plays a see that the see that the plays a see that the plays a see t

The amount of work that went into more FeW this most han is mind-bogging. Perry hired mathematician Robert Suh to model every detail of an RC helicopter, origit down to the influence of the ground on the rotor lift in forward flight. All this attention to detail is worth it, however. This sort of details is worth it, however. This sort of

stuff translates to the amazingly real feel of the game," Perry gushes. "We have studied well. Most guys would love to try to fly a model helicopter, but they cost a lot of cash; my Vano is over \$2,500. This means that they will probably never get to try it, as nobody in their right mind would let a beginner try to fly their multithousand-dollar

helicopter." Perry has taken the Shiny tradition of thin development teams to new lows - the FBW team numbers a whopping two people. Of course, not all the classics are the result of a huge staff. "Tetris surprised us all - it became the most popular game ever, and it didn't need 20

people to develop it," Perry says. So is he saying that playing Fly by Wire is as addictive and just plain fun as playing 7etris? "In a way, it's designed to be played whenever you have a spare

minute. It's like a drug." And like a drug, what the same



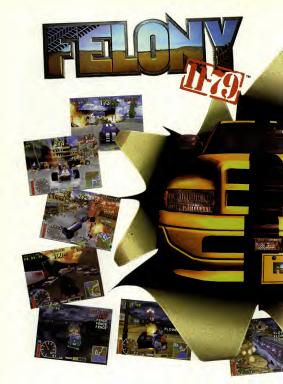
does more than any other in recent memory is to make the player keep playing. When a crash occurs, the player's feeling is not one of frustration at the game's unfarmess or bad design. but one of realization and resolve. The analog pad is suited so perfectly to the control of the helicopter that players will likely hearken back to their childhoods, when they drove obscenely painted cars around their neighborhoods. And if Perry can create a hero who whips his own body as a weapon, he can surely recreate something that has already been

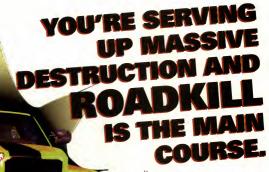
proven enjoyable by nature.





All of the helicopters control differently, but each meintains the level of realism that is even easier to appreciate if players have flown one





You'll cross over more than a few double yellow lines in this driving game of mass destruction. With limited time to reach your objective, you won't be waiting for any lights to turn green. Whoops! You forgot to knock before pummeling through a neighbor's living room window. Tact never was your strong suit.

Your weapon is your wheels.

And if you're good real good, you'll get to drive up to 22 of em. Like a limo, a bad. ass pickup, a formula one racer, hell, even as tank if your hot witing skills are up to sour. Confessed and cities of the month

Sport Spires and straining and the spires and spires an Pair a series and the notes. Seen before tack can view



# **Battlespire**

	_ Format:	PC
	Publisher:	Bethesda Softworks
	Developer:	Bethesda Softworks
П	Release Date.	Fall 4007

aggerfall may have been the end-ell and be-ell of PC RPGs, at least in terms of giving players a lot to do. Too much, according to some, as to this day it's a rare and dedicated player who's actually finished the game. "The whole lade with Dasblerall was that." The Daggerfall team returns with an Elder Scrolls spin-off players can actually finish







tattlespire has upgraded the Daggerfall engine to run in high res, even though the frame rate is appreciably faster — without patches, take note

No a pen-and paper nole-playing game, you could play for years," respirant suban LaFlay project leader on Daggardal, and the lates ECHF SCHB's gam-off project. Astribuyen: "You know keep the same characters, keep on doing stuff. This one is more like a traditional PC game. You can actually firsh it in forty hours or so?" White shooting for a fall enlesse date.

While shooting for a fall release date, the part settling for the last-musenush-out-the-door that bellad (laggerfall, "We've been hit on the bugs before, and that ain't gonne happen this time," he insists: "We're not shipping until i'm good and ready i mean, all the stupid petches we had for laggerfall—I want to move on to the next thing, not get stuck rewriting the same code."

in the City Stroke land of Termel, the Belle Stroke land of Termel, the Bellegies, restloned leating ground for those who against to become imperial Belletimingue, has been lation most by the exist leating, as "custed most" and entiting the subject restlation parts by the subject restlation parts belletimingue, the player is set mad the Store, unknown that the element who enters is entitly there is entered the subject of the player from the Store, and work and entered with the player from the store, it is most of the player through the Store Naturally, this might PRC will be the opposite confirm the stillers.





some new graphic tric along with grim design

character, "just to throw a little romance in the game," LeFay jokes. "I'm a sucker for that sort of thing,"

The character creation gistern is nearly elements to that of Diagosthal (and Arens before the although streamlined comments. The agence engine shelf has been also although streamlined to high-rea, high-color display, running at an apporticably higher ratio of specific, unning at an apporticably higher ratio of specific, unning at an based characterist. Telexprise seems to be going to 30 entirels, and rin curvous will," Life's goals, "Decause or many or will," Life's goals, "Decause or many or unit," and the seems of the imagine this box is an anni, this small box is a neard." Maybe when it is all hardware-

beset, and I can spend a thousand polygons on it, I'll do that, but when I put a demon on screen, I want you to see a demon on screen, I want you to see a demon— all the little wants, every reple of muscle. I don't want to see polygon lines all over the place. I'm not going to degrade my level of destal just to say, Oh lockel I've got 30 enemes." He syntes are about four times the size of the ones in DassperiAl, and they've set twee the





While still sprites, Bettlespire's enemies four times more detail than those in Daggerfa







Of course, the best thing ellout detriespire is that, unlike the huge game it's besed on, e pleyer can ectuelly finish it in 40 or 50 hours

number of animation frames. Sure, they'll poxelate if you put your nose right up against one, but any 30 enemy would look just as bad, maybe worse."

And for everyore who approximate he feet that the Quagnet amone by a ESSP "of ment prometally, Liefly yerin's about to back off." The omergin prometally, Liefly yerin's about of 1"No omergin or hose, 1800 off." This company to hose, 1800 of Seal." This Satisfaspine" of course they don't got for it, but inhough it was perely good a son of sames tug. In lave a certain rayle with may games, and in supervily productive society, things any other way, Maybe fill take some hists on it, but that all if any other sides and it liefly to change."

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# Wing Commander Prophecy



The scope of the game is immeasurably vast, whether players fly p a distant capital ship (above), or fly wounded, back to back (right)



Origin goes back to basics in the latest installment of its classic series, and it looks like the fifth time's the charm



illy Cain, lead designer on Wing Commander Prophecy, has a revelation: "QA hates us," he deadpans. "We keep adding things to the game, and they'll look at us, wide-eved,

and say, "There's more?" The Quality Assurance team may be the only gamers who aren't excited about Prophecy. When senes creator Chris Roberts left Onem to form Diatal Arwi, he took a great deal of the overblown Hollywood element of Wing Commander III and IV with him. What's left is a game that plays as great as the originals, and looks

better than any other space combat sim-

The game has been completely redesigned - no code remains from Wing #4V was rushed out the door with much of the same code), and it shows. The game's engine was actually taken from Roberts' last project with Origin, a firstperson game called Silverheart that was eventually shelved, in both unaccelerated and 3D-enhanced versions, the feel of the first Wings is back

The most impressive thing about Prophecy is easily the presence of capital ships, immense impenal cruisers were promised by LucasArts for X-Wing vs. TIE Fighter, but they fall light years short of the enormous, intimidating, sprawling craft in Prophecy. It can take up to half a

Release Date Q4 1997 Origin: minute to fly the length of one, with full afterburners, And they're not just window dressing, either, "When you destroy a

component of a cap ship," says Lead Programmer Pete Shelus, "I wanted to see a huge explosion, with a huge gaping hole in the deformed mesh of the ship."

Origin has been tight-lipped about the new, and as yet unnamed adversaries However, players will battle them through a gaudy \$1 missions. This number is by no means set in stone, however, as Carr explains. "The missions can continue even if you have to return to base in the middle of them. Some cap ships can't be destroyed in one pass, so you'll have to return to base and go after them again."

The team won't be resting on its laurels after Prophecy is done, however, Art Director Mark Vearrier already has ideas for WCVI. "Maybe take the fight to the aliens' universe," he says. "More of an aquatic universe, with plankton floating around." Whatever the case, with Prophecy well on track, the series

appears in good hands.







an boast a total of 6,500 linas of dialogua

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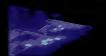
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BUT MENDE, IS HARMLESS AND ALDRE, HE'S TRAPPED IN A LABDRATORY AWAITING TORTUROUS EXPERIMENTS OF SIGNAGE TO TEST THE RECOPE OF THIS NEW TECHNIQUES. YOU GAN HELP HIM, BUT YOU GAN'T CONTROL HIM, IF MENDED GOESN'T ESCAPE, GALAPAGOS WILL PROSPER, AND ITS TYRANNICAL ARMY WILL RAYAGE THE GALAXY.





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NERM Controller Converging on Logistic Map

# 4.\*\*



# IS EMERGING

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# Jedi Knight



Format:	PC	
Publisher:	LucasArts	
Developer:	LucasArts	
Release Date:	Spring 1998	
Origin	U.S.	

the 1994 release of Dark Forces

marked it as the Swiss cheese to of first person shockers in wall despite being sandwind between Doors and Dwise Nations 30, it complemented the genre well, but it complemented the genre well, but it had a few gisings plotes. The lock of multiplayer support or an in-genre save feature, externed difficult levels, and rather dated graphics made the game merely noteworthy rather than really extraordinary. However, its sequel, Just Knight.

fixes all these problems rather impressively. The game features several modes of multipleyer support, including capture the flag Alea, Delyers will be able to customize their death match personse to suit their needs, and LucasArts has added, after much feedback, an in-game severees difficulty of the huge levels has been tempered somewhat. Arm, and not notable, the graphics have received a much-needed overhaul, mainting the leap

from pixeleted sprites to crisp polygons.
White Jech follows the flow of the game in more ways than one GD-accelerated graphics, projectile-based weapons), it breaks enough ground to warrant a careful look; with the addition

The sequel to Dark Forces is leaps and bounds better than the original, but does it have what it takes to eclipse Quake 2?



The Force plays a large part in the game; players can use it to dest enemies (above left) or channel it through the lightsaber (above)

other than cosmetic. Being a Star Wars title, the Force — light or dark side — plays a large part in the game, and the lightsaber is, appropriately, the most valuable and powerful weapon. When players

lightsaber is, appropriately, the most valuable and powerful weapon. When players become proficient enough, they can use their lightsaber to cut through walls, block blaster file, and eventually reflect shots

of a melee weapon as something

back to enemies

White Dark Forces
was merely Doorn with
one of the coolest
licenses in the galaxy,
Jack Kriight really takes
the genre forward. The
addition of the Force and
lightsaber combat should
ensure the game a place
aloneside the likes.

of Outlin 2 or Prev





The lightsabor is the most effective weapon (above), even against AT STs (to





from sprites to polygons

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ly familiar characters appear in this Saturn outing. Talls, for exa ears in an apparently less than-sporting mode of tran

Sega is relaunching Sonic the Hedgehog's career after the spiky mammal's conspicuous absence in the modern-day console era





onic, once effectively Sega's mascot, has so far failed to make a symficant appearance on Saturn. Of course, there was Sonic 30 Riast converted almost intact from Genesis, but it was something of an afterthought, Now, though, British developer Traveller's Tales is aiming to restore the cobalt-colored mammal's reputation with Sonic R

The game has the potential to become a key Saturn title. Not only does it star Sonic - one of videograming's true stars - but it is also an interesting hybrid of racing game and glasformer Sonic and four other characters (Tails. Knuckles, Amy, and Dr. Robotniki have to blaze through five large 3D worlds. picking up rings along the way and using their own special skills to get ahead of competitors. Sorac, for example, can use his spinning attack to wrongfoot the other racers while Dr. Robotník has the unique ability to take shortcuts through



But Sega is keen to point out that Sonic R isn't just another racer. The five worlds hide a number of alternative routes, shortcuts, and secrets that players have to discover in order to improve their times. There are also plenty of obstacles to jump on and over which

lakes and rivers

Release Date Origin give the game its platform feel, it even includes the famous loop-the-loop from the original Sonic the Hedgehog

Developer

Traveller's Tales has retained Soric's usual brash, simplistic coloring but has added a 3D realm crammed with scenic detail, as well as a few clever graphical effects. For example, objects in the distance don't pop in as they do in many Saturn games but instead fade in gradually, preventing the usual visual lar,

Saturn

Traveller's Tales

Sega

Some may bemoan the fact that not only is Sonic's first 32-bit-only appearance a radical departure from his previous advertures, but that it is also a racing game - one of the most overdone genres on Saturn. However, given the game's platform elements, visual style, and promised wealth of secrets, the new approach should please most and provide a much needed pick-me-up for Saturn, As the final battle with Sony and Nintendo is on the horizon - Christmas - it better come soon.













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# The Journeyman Project 3:

Legacy of Time

The third in the "adventure series that built Presto Studios" promises to build an even bigger following



When navigating large areas, the new "strider" mode enables players to move continuously (from node to node) by holding down the mouse button



series maintains its ste level of detail, be ver the course of the first two Journeyman Project games, Presto Southos quickly developed the series into rightly anticipited this for adventurers Lunng players with a well-developed story, some of the game industry's finest pretendened scornery, and the promise of more time time! Presto plants to under the finest points from the past games, and more than commerciatin for their and more than commerciatin for their

shortcomings.

First and foremost," says Presto
Vice President Greg Ubler, "the VR
technology we're using really makes the
player feel like they're in environments."
Uhler explains that the visual area scrolls
"all the way up and all the way down" in

Format:	PC, Macintosh
Publisher:	Red Orb Entertainment
Developer:	Presto Studios
Deleace Date.	O1 1009

a 360-degree circle "Puzzles are not atways in plain wew," he notes "Objects might be high up on a shelf or down on the ground in front of you."

the ground in front of you."

But visual changes are just the start.
In Bursed in Time you didn't really feel a progression," notes their referring to the four large time zones in that game where players were able to freely move about. In Journeyman 3, we decided to make earlier gampelija elements all tittle



easier, a little shorter, so that someone who is getting into the game will quickly get some cinematics, go to some smaller time zones, and get really hooked,"

Once again, players assume the role of Gaze Blackwood, member of the Temporal Security Agency (TSA). responsible for monitoring time travel. Picking up where J2 left off, Gage must track the roque Agent 3 across time in a prototype time travel suit, which drastically alters the gameolay.

"It's called the chameleon suit," explains Uhler, "Basically, when you go back in time. If you see any other characters in the environment, you can capture their image and project a hologram around yourself and look like that character."



characters in an unsuspecting fashion. relationships with characters," he says pointedly. "So you may find yourself as the sister of another character, and that character might give you information that they wouldn't give other people " Pared with the time travel aspect, "it

really allows you to become a part of each culture," says Red Orb Producer Steve Schreck "As opposed to being on the outside looking in, you're actually taking part in what's happening "

The cultures Schreck is referring to add another intriguing element to the game. Each time travel destination is a fabled lost city, including Atlantis, South America's El Dorado, and the Himalayan wilder of Shangri-La. This enabled Presto to build some very organic science. fiction into the game, in Shangn-La, for example. Utiler explains that according to legend, the monks may have been able to transmute one solid object into another, a theory that influenced both

the story and puzzle designs "It was rumored that Genghis Khan went to Shangn-La and tried to learn how to turn lead into gold so he could arm his warriors," Uhler says, "and you actually run into Genefits Khan

And hopefully, he'll be a convincing



in Shaneri-La."

Genghis Khan. Red Orb and Presto agreed that the acting really needed to be stanned un for J3, so they cast

Screen Actors Guild performers, and spent nearly a month rehearsing and shooting the sequences and dialogue for the 18 interactive characters who appear in the game

Unlike many mass-market adventure games that often throw in random "puzzle book" puzzles, Presto has stayed true to the philosophy that game puzzles should be part of the natural game environment, each one working with and advancing the plot "The mythology of the environment itself may be very integral to what you're trying to do," teases Presto Creative Director Phil Saunders, \*Learning and applying the religion and the customs of

that particular religion or environment So, does Leasey of Time wrap up Presto's trilogy of Journeyman games? "I can't say that this is the last one." says Saunders. "It ties a lot of loose ends, but there's still a lot of accordingly"

may solve a puzzle."





























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## Forsaken: The Thrall of Chaos



Cinematix has made a prettier Diablo. but can it make a better one?



ard's Diablo did more to blur the lines between action. adventure, and role-playing

games than anything since The Legend of Zelda. So it's not surprising that such a landmark title would eventually spawn its own imitations, Fortunately, developers seem to have learned their lesson from the legions of subpar Doom clones, if games like Forsaken: The Thrail of Chaos are any indication.

While Forsaken is very smiller to Disbib in appearance, the two games are quite different. For instance, there are no dasses in the game. Instead, there is one main character, and the player's actions during the game define what "dass" he or she will become And where Diablo



re the lighting changes and general ambience

Format:	PC
Publisher:	Eldos
Developer:	Cinematix
Release Date:	Spring 1998
Origin:	U.S.

was mostly point-the-mouse-at-themonster-and-click, Forsaken places a large emphasis on resource management, character advancement,

and dungeon exploration. The game certainly looks better than Drablo - the characters are presented in realtime 3D, in 65,536 colors. The artwork itself is apprecous: Leading Cinematix's art. team is Den Beauvais, a premier scifulfantasy artist. The graphics were developed with Direct3D, and the realtime light sourcing and dynamic shadows. make Forsaken the most graphically

impressive RHG ver The single-player RPG is indeed a

sparse genre these days -- the number of upcoming titles can be counted on one hand. Since Forsaken has no multiplayer options, it, along with Liftma DC, represents the future of the lonely genre. But single or multiplayer notwithstanding, Parsaken could be one of the best RPGs in years.





# LEGEND OF ELDEAN

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Our games go to 11.

## Mega Man Neo





Mega Man marches in the parade of

ga Man may seem unconcerned with the dangers of ad trauma, but he acquires a helmet in a later stage

ven the nearly identical experience the first two 32-bit Mega Man titles bore to previous 16-bit titles, Mega Man may well be regarded as "the kid who was fairly popular in junior high, but sort of lost his cool as a freshman in high school." While a bit behind the



bandwagon in the leap to 30. Mess Man Neo may innovate enough to ensure that the man in blue isn't headed for a sophomore slump.

Like in Marro, Capcom's designers have made certain that Neo captures the spirit of the series. Picture the 20 Misas Man world in 3D - mechanical 3D obstacles and enemies, industrial 3D environments, imposing 3D bosses to battle played from a third-person perspective - and you have Missia Mari Neo

However, Neo brings with it a level of

Format:	PlayStation
Publisher:	Capcom
Developer:	Capcom
Release Date:	November 1997
Origin:	Japan

exploration, and requires some text-based dialogue with characters such as local officials and townspeople. While players must traverse some external environments, the traditional action elements remain true. Mesa Man can

power up with multiple weapons, including a grenade launcher, a machine gun, power shots, spread fire, and a drill arm, among others.

Offering a control system very similar to the circ in 170th Ratider, Neds' manual camera button lets players look around and auto-target enemies at offerent elevations, such as oseling-crawling choids note obto features a Liera-Croft-style jumpang-and-climb manuscuer, and lethinght during rolls that add a new level of aerobatics to the Mesa mix.

in staying with the current trend, the game does away with prerendered cut



scenes, and each arimated segment uses in game directors to lend to the optimistry. Some scenes are fairly long, suggesting a more invoked plotine then those in past games to a nutshall, Mega Man must save the Hidden Legacy Treasure). These sequences borrow heavily from American films, including an opining scene very similar to one from Radders of the Lost Avit, and Lost Avit.

including an opening scene very similar to one from Raiders of the Lost Ark, and a dazzling escape from a boss similar to a scene from Sack to the Puture it. As of this writing, the game is less than 20% complete, and fixe many 30 platformers in development, the camer

than 20% compress and led many 30 platformers in development, the camera adjustments were far from finished. Much of the audio has been implemented, though, consisting of amped-up versions of the traditional Maga Man sound







effects. The music has a resonating quality, reflecting the spatiality of Neo's new world

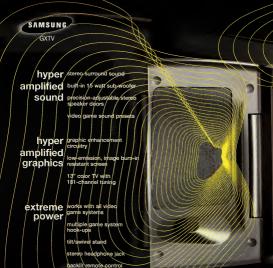
White this cuestrontable as to how mary of the 3D platformers will be successful this holdedy season, Capcom is presty much relying on Amo's hearly nonstop action to attract Psystation owners. And with Capcom breaking mo the realm of 30 the Capcom breaking mo the realm of 30 the Capcom breaking mo through of Street Psystation SV, this may mark the beginning of the end of the 20 hear.



Spread fire (top), one hig boss (center right), and a trip to town (above)



dega Man's moves and auto-targeting cheme are much like Ms. Lara Croft's



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## **Monkey** Hero

to be John Romero, Peter Blam brings the first Zelda-style action/adventure game (and some refreshing diversity) to PlayStation

Molyneux, or Sid Meier to become fed up with the bureaucracy of working for large publishers, Just ask Jay Minn and Jeronimo Barrera. Certainly not household names in the videogame industry, the pair left Crystal in 1995, and braved grave financial risk to begin work on their own grand vision - Monkey

Hero - without interference

and simple," Barrera says, "where your
PlayStation, PC
BMG International
Blam
Spring 1998
U.S.







pired by the Chinese feble, Monkey fights with a magic staff (above left). New light-sourcing effects (seen

character can gain attributes and use tools. We don't restrict a player to one certain attribute, so it's a little more free form, a little more like Zelda "

Monkey Haro is, in fact, comparable to the 16-bit Leaend of Zeida in many respects. Aside from borrowing Zeida's exploration-combat-puzzle formula, Monkey shares a similar top-down

perspective. Structurally the game will feature between 3,000 and 3,500 screens, more than 30 enemies, 16 dungeons, and 14 bosses. Minn believes the average player will complete the game in about 80 hours, but will only have seen about 70% of the game "One dungeon is going to take you a day to finish," he estimates "Especially some of our later dungeons,

ng alphas



which have upwards of a hundred rooms." The game design is large and seems

conventional, yet the background story isn't, "The original Monkey story," Minn divulges, "is based on the Chinese legend and has characters inspired by that "The team used the legend as a starting point, adding a conflict between a nightmare world and a dream world. As Monkey. players must restore belance to three kingdoms by retrieving pieces of a magic book stoken by the Nightmare King. "The Nightmare King will probably set away at the end," Minn says, grinning, "so he'll be able to come back for a sequel."

While Monkey's lush, 30 environments are entirely polygonal, the team opted to go with prerendered, spritebased characters. "The polygon characters in a lot of games," says Senior Producer Matt Seymour, "are not guite as personable, and you're not cuite as attached to those characters as these

prerendered characters that we have. We're going for a soft and squishy, fat anime look in this particular title,"



shots were pulled directly from develo nkey exits e dungeon (ebove) end uses e mirror to solve e puzzie

Barrera and Minn are huge anime fans, and Monkey Hero has strong anime styling. To this end, they hired artists from the comic industry to achieve high anime quality in the character designs. "We've made sure the art staff has a good steady diet of anime and kung fu flicks," Minn says, "and now they're bringing us stuff that we haven't seen anywhere else"

Blam also has its share of programming muscle. The group boasts Grez Marquez as technical director. He wrote TUME, The Ultimate Map Editor, which is by far the most popular design tool used to create 16-bit side-scrollers. For Monkey Hero, Marquez has written MOPA (Map Objects Puzzle Attributes), an enhanced 3D version of TUME. Marquez. explains that MOPA enables designers to use 2D tile representations to quickly snap large 3D objects together Eventually Blam may license MOPA to other davelopers the way Marguez did with TUME

Blam has plans for a Win 95 port of Monkey Hero. The company is smultaneously localizing the console version into Japanese, French, High German, and Italian, and already has

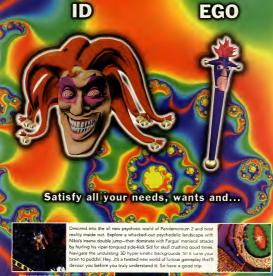
another original title on the drawing board Minn wraps up Blam's philosophy over an early evening whiskey in San. Francisco's Mick's Lounge, Just downstairs from where his 20-person company is hard at work in several converted Victorian apartments. After noting that the company had a tab at Mick's before they had a health plan, he grows serious, "It's really important for us to be able to excress curselves as videogame artists," he stresses. We want to have a chance to do

it our way at least once before we die." Given the company's current level of dedication to the art of garning - and the likely success of Monkey Hero - the chance to do it their way should most certainly come again





















## **Rapid** Racer

Every system seems to need a water-based racing game, and SCEE steps up to the challenge



Running at 60fps, Rapid Racer is one of the new breed of PlayStation

Format:	PlayStation	
Publisher:	SCEA	
Developer:	SCEE	_
Release Date:	Q4 1997	
Origin:	II K	

is the contential to be catching to risk the potential to be catching on its own that some power door floaring this issue, page 1575, Sorty has its complexity of the second power of the company's own internal team in the LK, Sorty compared Fernansinatement Europe, whose previous tittles include AMS shoroust and Prosider Challenges. One of the new bread of Physiquision

graphics modes, Rapid Raiser's still runs at a stunning drips — the miscentum advised by an NSC-standard IV monted. The game will also feature a split-screen, two-player modes, and it is a testament to the game's tight coding that there's little appreciable difference in speed between one- and two-player options, losing only a small amount of detail in the later.

Despite the strained pun of its title, Rapid Racer could represent a new high watermark for 32-bit graphic engines. One to watch for.



Even in this split-screen mode, the game maintains speed withour losing much detail







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## **Power** Boat Racing



While still eerly in its design cycle, Power Roet Reck level of detail end an obvious commitment to realism and our

fter the success of Wave Race. and given the hit-driven, herd mentality of the industry, it's actually surprising there hasn't been a rash of boat and/or jet ski racing games over the last year or so Upon further reflection, however, it's not so surprising Realistic wave mechanics are a nightmare to program. At least one developer remains undounted, however Promethean Designs is throwing its hat into the boat race arena with Power Boat Racing, and the results seen so far in the PC version look aute promising indeed.

The game makes use of Promethean's Real World Engine, which not only buffets the players about as they zip around each track, but also accounts for such nitoicky details as real-world. gravity indeed, every boat even leaves a distinct were which can interfere with the craft hehind it. Crashes are calculated not only by the speed and angle of each boat to the other but also with the curve of the hull, and no two crashes are ever exactly alke. Depending on the player's hardware. reflection maps are also supported, giving

the water's surface a nice, glossy sheen. Players compete on six different tracks, set from Norway to the Amazon

Turbine engines and 3D-accelerated waves on your PC - what more could you ask for?

Format:	PC, PlayStation
Publisher:	Interplay
Developer:	Promethean Designs
Release Date:	Q1 1998
Origin:	U.K.





(and including, incidentally, at least one course that seems a deliberate clone of one in Make Raoti, plus they have the option to take on eight slalom courses, which are made up of sections of existing tracks with added slatom obstacles. The final game will feature fourteen different craft - six monohulis and

eight super-powered. dual-hulled catamaran designs, or "cass" - and the physics model is scohisticated enough that

each boat has its own uninua handla and fael When looked at in the context of an

otherwise mostly emoty boat racing game field. PSR makes us hope. First it's clear this genre probably worth become as crowded as the auto racing genre Second. given the team quality a developer needs to do real wave mechanics, the few examples that do emerge are likely

to be knockouts.





cool lighting just for show is et night







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## Flesh Feast

From the creators of the brutal Eternal Champions comes a new journey into madness for PC players



Similar to a George Romero movie; Flesh Feast uses the sheet determination of the zombles to scare the hell out of players

Format:	PC	
Publisher:	SegaSoft	
Developer:	SegaSoft	
Release Date:	January 1998	
Origin:	U.S.	



Flesh Feast offers intricate 3D environments to

If there was any doubt as to whether the hornor generally had anything left to offer the game industry, it disappeared about the same time Resident EVH stands shattening sales rounds. With that is mind, and an appropriately growy history to their cradit, hird evilveigners at Sind set out to create an over-the-top action game for PC. Wither buying to size all the hornor and intensity of a sumble move and out it that the same." Seek Mark

Waitburg, producer on the project. Fissh Feest an overhead "Indoor feeting more than 50 weepons such as shribgars, sees, and chain saws, and thaps that can be strategically used against zombe strategically used against zombe strategically used on the same properties around a battle between the few remaining humans on an isolated elaind ascense of bloodhiraty aromaise.



Behind the action there's a complex story involving chemical warfare, mind control, and an evil plot to take over the world, told through a senes of gruesome FMV sequences.

First Feest features 17

environments, each one requiring players to saistly a different mission objective the environments include a stopping mall, campgound, and, of course, a graveyard where the dead are awakened from their resides slamfor. The missions are bysucally pretty simple but still offer a variety of challengies.

To complete each mission, the places mission store from separate characters—
a task that is shared with the computer—
a task that is shared with the computer—
All To ministin four separate characters, the player can either take direct control or set the personality of the characters before saming the mout on their town. For example, an espicially if character can be sent of in a fit of rang, actively searching out zombes to full, or a weekened character might be set to run

weakened character might be set to run away from possible danger. A final aspect, and perhaps one of

the most important, to consider in Flesh Flesh is the multipleyer game. With a slot already caned out for it on Sepsoft's Heat network, Flesh Flesh was custom-dissipated for multiplayer action. Current plans exist for zombies vis human death matches and team play, and the door has been leth open for other possible.





golden ring of gore in it latest offering

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## Road Rash 3D









entially have the ability to upgrade parts, own multiple blkes, end steal other blkes

ften imitated (remember Extreme games?), Road Rash was never duplicated -- except by EA itself. The ported 300 version landed on PlayStation and Saturn with minor, glossy enhancements. Two years later, Next Gen asks, is the genuine 32-bit Road Rash finally here?

"It's a real 3D world now," says Associate Producer Hunter Smith explaining how 3D brings with it major enhancements, a new physics model. smoother, more Welke animation, and a more dynamic camera. The physics model will lend a more realistic, precise feel to the driving and fighting. When a player throws a punch at an opposing rider and misses, the momentum of that punch will make the bike wobble. Players will also feel the weight of the bike and need to lean into comers. To enhance this gradual steering sensation, the game will be compatible with the new PlayStation analog controller, and the PC version idua-



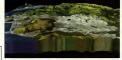


later in '981 will support analog force-This game also enables players to create their own identities, as opposed to previous versions, where players chose one of several rider profiles. "The world is divided into four gangs of bikers," says

feedback lovsticks.

The king of 16-bit racing/combat games accepts the 32-bit challenge. Can EA start from scratch and recapture that motorcycle magic?

Format:	PisyStation, PC	
Publisher:	Electronic Arts	
Developer:	EA Studios	
Release Date:	Q1 1998	
Origin:	U.S.	



A fully mepped world repleces the vertously themed segmented courses

Smith. "Their bikes, their racing styles, their fighting styles, and their terrain all blend together to create their personality." The design team believes that giving the player the opportunity to learn each gang's strategies and build long-term rivaines will heighten the intensity and add

depth to the gameplay. Smith expects there to be more fighting moves than in the past, and more cops on the courses, along with sixteen simultaneous competitors. The PC version will enable multiplayer rashing over a LAN and may feature internet play as well.

In an inspired move, this same may be the first on PlayStation to stream synchronized Redbook audio and game data. The in-game music will not be immed to MIDI, nor will the game have to preload the entre louel Road Rash 30 breaks from EA's

chronic "recycline mold," since not a line of code was carried over And with a fresh. creative start, perhaps this title will bring with it some of the genus that made the company the world's largest thirdparty game publisher





re then 10,000 fra nation for bikers

## We've rebuilt him... Made him stronger...



GEX in threat with horr 125 unique moves, 3,4 t I frames of fish character animation and a amilas. The state of animation and a stress of the state of the s mpresions and ament ass on lines











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Februit for seon-tingent action. Cravity-defining well crawling. Whipersoking twill-attention and multiple disquises. And multiple disquises. And in a sercestic media-dimension perody. Take thet, James Baunf, Fredrico Crugar and Mr. Lee (regal wassels require us to







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## The way games ought to be...

In search of the future of gameplay

But is it art?

re videogames a form of art? Of course they are Pregmittonly, anything that is the product of creative statent and effort is an art form fol course, this rule desert's necessary mean that the art produced is any goods. The process of making videogames requires the creative implementation of its own, unique set of statent and skills kence games have to be regarded as

a legomate art form.

But forget strict definitions or qualifying nules. It's others to anyone who's played a few classic games that there's more going on than amply clears programming and pretty pictures—there's something else, something insangible, something insangible, something insangible, something insangible.

intengible, something that elevates a good gameplaying experience beyond that of merely string in front of a TV screen manipulating images. That "something" is the manifestation of the game crossor's art, and is she qualify of this art that is the difference between good games and bad games. Thus, we can see that at the orce of every.

groundbreaking new videogame

is great art, the "magic ingredient" of hugely addictive games such as Doom or Terns And the ofference between Sonce the Heagehog is game that thrists and copulies the imagination of the player) and its myraid of second-rate clones games that seem inspital and lifesasy is the difference

between great art and poor art This art is not only the lifeblood of videogaming today, but also the foundation upon which the interactive entertainment industry of tomorrow will evolve As I've outlined in previous columns, it's my belief that as far as interactive entertainment is concerned, we ain't seen nothin' yet: What moves have been to the 20th century. interactive entertainment will be to the new millennium. The potential of actually putting people into new situations, as opposed to just showing them pictures of alternate realities, is awe-inspiring. Videogames are indeed going to take over the world, and it is from the contemporary art of creating great gameplay expenences - the art of making great videogames - that this invasion will be fueled The art of making a great videogame in 1997 is the acom from which the mighty caks of

interactive entertainment will grow.
But there's a problem:
The trouble is that in 1997, hardly arrivers

seems to recognize videosames as an art form, and even fewer can pinpoint the touch of artistic genius that elevates one particular game above the common herd, Certainly, despite videogaming's considerable inroads into mainstream culture, most nonplayers would scoff at the idea of acknowledging that Virtua Fighter 3 or Command and Conquer are great art. "It's just a studid videogame!" they might cry. Or, "Where's the art in moving a muscle-bound ninia around a TV screen?" they might question. Sure, overcoming this ignorance is just a matter of getting the games into people's hands and letting them learn for themselves. But I'm not just talking about a lack of understanding amongst the uninitiated or the mainstream -- I'm also talking about a much begger problem. I'm talking about the fact that - and this might come as a bit of a shock - many game producers simply do not truly realize that at the core of what they are making is art, either.

Many game companies don't realize that there is a specific and unique art at the heart of making videogames

> I'm dead senous, and I'll say it again: Many game companies don't realize that there is a specific and unique art at the heart of making videogames. Oh sure, these companies (and they are usually newcomers to the game. market) talk about their products as if they were the greatest works of art since Michelangelo hit the roof of the Sistine Chapel, but they don't actually grasp the fact that creating compelling interactive entertainment is a unique skill and an art form all by itself. And because they don't see it as art, they can't try and develop it or nurture its growth. The games that these people produce are formulaic. derivative, color-by-numbers products that simply clog up store shelves. And if left in the hands of these people, the dream that interactive entertainment will evolve into the main artistic medium of the 21st century will remain just a dream

#### Missing the point

But how can this be? How can people who make games for a living be so unaware of what it is they are doing? How can they miss the by Neil West
Neil West is
Next Generation's

editor-at-lense

point by such a wade margin? New can they fall to use the art in what they are producing? The start of the problem is that it's very conficient to explain moveds what it is fart the videograme artist obes Hence in severy difficult to dod offering, and down, and make use the state such and eavily games is an example of great volcoparme at Suns, we all use expressions like "light corrots." Thus games just, and "well-ballowed" to describe games we empry playing, but what does this phrageology actually mean?

these terms and expressions (and there are

plenty more - just ask any videogame

reviewer) attempt to say is a game simply freets right. Similarly, we might say that a complex game is "deep" or "absorbing." but we're not really getting down to the ninty gritty of exactly withy it is we've goine three days without sleep because we've been playing it norstop.

You'll find the same vagueness with the analysis of most other art forms. In many ways, it's as difficult to identify the exact reasons that one game is superior to another as it is to explain, say, why one song you hear on the radio is more enjoyable than another Sure, one game has you up until 4 a m. just as one song can have you tapping your foot and humming the melody in your head for days afterwards - but can you explain why? Similarly, can you explain - in words - why one photograph communicates more than another? Or why one novel is a better read than another? Or why one portrait captures the spirit of the subject with more finesse than another? We can try, and to some extent succeed, but ultimately, we have to conclude that there is something intangible about all art, and you just have to trust your instincts when it comes to deciding whether it's good or bad. You have to look at a photograph to judge its worth, and you have to play a game before you can rate it. Much like what has been said about pornography, it's impossible to define exactly what is and what is not pernography --- but you

With other art forms, this inability to put a

know it when you see it

publishes that the actual art of creating the game itself is suffocated. Because it can't be easily put intro words or shown on a printed page, often the essence of a game — the actual business of what it feels like to play it — is at best left until the last minute and

"tweaked" during play testing and at worst simply left out of the creative

process atogether. Of course, many what we mean when we tak of a game's resence" or 'out's it is morestiven, so we can say that all too often a game's interestiven, so we can say that all too often a game's interestiven, as eff to fail to y the weighted and extended advantage of words and it int is emmediately impressive as, say, a nucely remided ringer of be specarable. Therefore, many game creations still contributed advantage or remided ringer of the specarable. Therefore, many game creations still contributed that or others that makes a game exception policy. And this means that they mean ready

And tiss means that they never understand what is is the makes a game tick. Again, their mistake libes in thinking that a wideogame isn't a piace of interactive art in and of itself, but rather a selection of other art forms bottled together and delivered simultaneously. They think that the whole is merely the sum of its parts, when the

truth is that a game is — or at least, should be — an interactive experience above and beyond its graphics, 3D engine, and character designs, no matter how impressive these things may be

If give you an example, When I was edition in what of west described in which of Next Generation, I would do septic be give consequent and ownering the septic beginned for a not septime of the septime

character's motive and the concept behind the game world. We'd hear must. We'd be shown complex level designs. We'd ever get demos of the 30 ergine or other technology desired to be implemented into the finished product. And them we'd be asked, "Well, what do you thrick" is this going to be a great game or what?" And, we'd have to reply that we hadn't the 'faintest dail if it was some to be a small same or not

A game is — or at least, should be — an interactive experience above and beyond its graphics, 3D engine, and character designs

because we had actually seen neither hide nor hair of a game yet.

nair or a game yet.

This would be met by a shocked, puzzled silence. "What do you mean, you haven't seen a game?" would be the eventual response. "We just showed you."

But we hain't seen a game. With 3 seen a lot of graphics, heard a lot of music, been told a story, and witnessed some technology demonstrations. All of these things may have been terminally impressive, but thing wren't a game. We'd attil have no idoa what the player does, how it feels to do it, and whether or not — in the course of the same — he is inclined.

I'm constantly amazed at how many games are developed by teams that have no one responsible for the actual game

> to want to do it for any length of time. The attitude seems to be that if all of the ingredients can be built and botted together, then somethow the schull game bit will take care of itself. And sure, you can build games this way — but sheyfi never be classics. Theyfill never be an enthalthin interfactive essormous.

I'm constantly amazed at how many games are developed —even as some of the beganst and most established game companies — by team that have no one responsible for the actual game. There are artest, programmers, maistans, and a producer to coordinate them all, but no one schallarly concentrating on the business of making sure that the interactive expression is a reversing.

as it can possibly be. No one thinking about

how it will actually feel to play the game.

instead, the actual "gameplay" will be added at the last minute, when all the graphics are ready.

Almost as an afterthought. It's like these developers are trying to invent chess and have created a superb,

glossy-looking board and a whole new set of d, exching pieces and then sit back and say, "Look I Look at this new board game we've made! Look at these shiny pieces and this state-of-the-art board! What a

great game this is!" But they haven't thought about how the game is played. They haven't thought about what pieces can move in what directions. They haven't thought about how these pieces their interact with each other. They haven't developed a set of rules in short they haven't

set of rules in short, they haven't thought about the actual game itself.

#### The major players So, if interactive entertainment is going to

replace movies as the world's most popular arform, who will replace Seven Spleberg and Martin Scorcese as the world's most reviewed artest if the world organe serving a arievally art—and I would arga, the tit they most definitely are—threw self-out-old kind the real artists working in the game industry right now. These are the popple who will take us forward, and these are the people whom we should be subgoging and encouraging others to should be subgoging and encouraging others.

learn from.
So who are they? They are the people who truly undestand instructivity and whose craft is not billinged by the graphics, the sounds, and the even-more-polygons-per-second 30 engines. Sid Meter, Peter Molyneus, John Romerc, Shipperu Mysmoti, and V. sin Mill aim for persent sorner.

Suzuki are five names that spring to mind. These are the great arrists of the videogame industry — and simply because they realize that that's who they are. They realize that there is a specific, highly specialized art to mixing great games, so that's what they do

#### ut to recovered?

Want to respond?
We'll be including a "The Way Games Ought.
To Be" Q&A in future issues, so if you have any comments, criticams, or questions, email we'll West at thewaystnext-generation.com or write The Way Games.
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email Nell West at thewsyltinestgeneration.com or write The Way Gernes Ought To Be, Next Generation, Imagine Publishing, 150 North Hill Drive, Brisbane, CA 94005. Email is of course our preferred method of communication

















Goldeneye Nintendo 64 Final Fantasy VII PlayStation World Series Baseball '98 Saturn Meat Puppet PC House of the Dead Arcade Twinsen's Odyssey PC The Lost World PlayStation 688(I) Hunter/Killer PC

## finals

Reviews to make the heart sing and the pocketbook ring

#### Nintendo 64 168 PlayStation

169 Saturn

172 175 PC

182 Macintosh

184 Arcade

taining every er done, including star es and the complete text. ck out the Next Generation Disc. And remember, the star rating is only part of the story For the full picture, read the

### \*\*\*\* Revolutionary

Brilliantly conceived and flawfessly executed; a new histh watermark.

#### \*\*\*\* Excellent A high-quality and inventive

a successful attempt at creating a new one \*\*\* Good example of an established

#### game style \* \* Average

Perhaps competent

Crucially flawed in design

Next Generation Disc

Nintendo 64

## Solid Gold

N64 developer Rare comes up with a game that's better than the movie



MARY OR ECTIVES

M bad rap, and for good reason. This, formulaic no camers with few redeeming qualities have been the anything with a picture of a move star on the box However, second-party Nintendo developer Rare has once again shown itself to be a bright spot in the N64 landscape, creating a James Bond videogame that's even better than the time, formulaic move it's based on. Although at first plance Goldeneve appears to be

just another first-person shooter, Rare has used the movie's storyline as a backtone and packed the game with eighteen levels, and eighteen gadgets and weepons a few of which have never been seen before in a videogame Proximity mines, remote-control bombs, throwing knives, rocket launchers, moderns to provide syeded informations, plus the expected selection of highpowered rifles can be found, and rather than simply providing the player with a bigger gun to kill enemies. each item actually has some specific purpose in the

And this is where Goldeneve sets itself abort, James Bond is, after all, a spy, and stealth is vital to completing missions. Using a rife to kill a guard is easy, but if that shot warms ten others, players are unlikely to finish the level. Many of the weapons include built-in telescopes. and sixnoses, which allow (with a little practice) pingointaccurate shots, while proximity mines are useful for covering an exit. Early on, mission objectives are the

usual "kill everything, exit the level," but later missions have more complex and sov-oriented objectives; resource scientists, planting moderns, and generally thinking bevond smole stimulus-response (a later level even requires driving a tank). Enemy Ali is solid, and brainpower is crucial, which lifts this first-person shooter well above

Querall. Bare has achieved an impressive level of production design, with convincing sound effects, smooth polygon characters, and a fully fireshed looking product. The part even contains a few FMV animation sequences (tike Bond bungee jumping off a Russian dam), and a decent remaied version of the Bond theme some. Much like Show's MDK, each victim reacts appropriately -- hit a guy in the knee and watch him grab it, shoot him in the stomach and see him double over

Perhaps the game's biggest achievement is bringing the four-player mode into full play. Here, the game succeeds as all N64 owners had hoped Doom 64 would have, four players, solf screens, polygonal characters. little slow-down, lots of scenarios, Finally a first-person game is as fun and playable in multiplayer mode as it should be on NS4. Plus, there are about ten different scenarios with choices of weapons and challenging

Goldeneye is a surprising killer app, if only for the smashing multiplayer options. The excellent single-player ne backing it up makes it well worth buying indeed. ating: \*\*\*\*

199

#### Nintendo 64

#### Yuke Yuke Troublemakers Publisher: Enix Developer: Treasure

The first (but hopefully not the best we're weiting game to let increased 44 20 sale scrolling game to let increased at sometimes charming, but mostly amonging little wonder, have have

Tracitismakers.
Tressure fains (Quardien Heroes,
Curster Heroes) will undoubtedly set this
up, eithough others will probably six bit
stupefied watching Marina, the lead
character is noted housecleaner of all



ruka Yuka Troublemakers brin ID, side-scrolling action to N64 why we don't really know

things), bosh her way across 20 landscapes, performing feality moves that would make any 5-be to an horo-pollous. Marina's oblines are prentiful, and the charming Japanese-style characters and worlds they inhabit are loaded with quirtly.

words they inhabit are loaded with quitipazzies, tricks, and traps that are admittedly additione.

As another exemple of himbendo of it less shampowerful ability to handle sprites, Yales 1949: Thoubernations (which boosily standards as "Go Go Thoubernations" — this haparese, no?/is for all gorgeous as it could be Character are usits anneal and the bediengrands.

while colorful and imaginatively designed

just aren't their engaging or active. The lottle-injet mass of meither here por them, and the sound effects fall loosely into the same category flut despise the childral lock and sound, players are in for an unforgiving difficulty curse, as false hale pushes 20 genephy to childraggrap witwels, including today; magnesive bosses. Overall', what vitue l'incolumnations overall', what lave l'incolumnations overall' which lives lives looselemations.

Overall, Yulie Indubinations has a quirty, distinctly Jepanese appeal, and no doubt disserves at least a small Stateside following. All in all, the few 2D games who are actually part of the N64 audiance are in for a treat. Ratings: \*\*\*

#### PlayStation

#### Bravo Air Race Publisher: T\*HQ Developer: Xing

can manage

Mix Sign Raily or Rage Racer with planes, and T\*HQ's latest acquisition from Xing Entantamente is the result. Bravo Air Race shows the heights to which Xing aspires, but also the low adhibute that sometimes is the best it.

Although osternably a race between planes, thrake puts on very few "airs." Despite each craft's resemblance to a World War II writage craft, it's really little more than a collection of mobility and speed statuses. Nowhere size can a Zimo



The action's there in Bravo Air Race, but serious draw-in is e problem for would-be eces

outrose on F-No of F-117 Shashh fighter. Accept the fisc that at it as a arcade game, not a light arm of any lond, and the garmsplay value goes up tremendously. The courses are welldesigned, and the control is good, if a bit settlement of the control is good, if a bit settlement of the control is good, if a bit settlement of the settlement long it is the lack of a competitive. At Despite different plane characterisatic, such secrit files exactly this series, such secrit files exactly this series.

Bravo. Air Rece's other major flaw is its graphical limitations, in attempting to create the illusion of wide open space, the developers succeeded only In creating polygon draw-in comparable to Saturn's Daysons (SA: Plus, Xing boses the outer into an integriting comdor small enough that it would have been better if it had just been honest and inquared the planes to fly through a concrete turnel.

As an arrainer science same.

Brown falls miserably, it competes much better on an arcade level. Keep in mind that the sky is an illusion, and Bravo Air Race is well worth a

Rating: \*\*\*

#### Darklight Conflict Publisher: Electronic Arts Developer: Rage Software

As far as space flight sims go, Darklight Conflict is a technically proficient attempt at representing a genre that is solvemely popular on PC, but has finited success on home console systems. However, "technically proficient" doesn't

equate with "good".

The graphics are above average, putting the litest bing of Physiciscon lighting and transparency effects to good use Especially compared to Mining Commander IV Goodber PC to Physiciston ports, the visuals are downingto attractive Uniformatishy.

PlayStation port), the visuals are downright attractive. Unfortunately, anybody who has seen Surklight Conflict on PC can't help but be disappointed by the PlayStation vision—here the graphics merely "do the job."

Even more broating, banklight conflict is a game that bug for analog control. Despite the fact that Psylication arising controllers are for, in the case of the hardwist dural-marking populs, will soon bed saisable, this opens is complexely shown the last of saring supports especially madelining supports especially analogist of the said of externally sometime. Players will find externally sometime.

correctors and over-correctors in the most among my imagnable. Add that the gime's missions are all depressingly smiler, and the imaging control is even more unabsolome, since no new shifts are over needed. An overly long training security too much textly just add to the training too much textly just adds to the training too much textly just adds to the training.

These are not thinkel problems, but perhaps paintight Conflict's stimule failing as sut the lock of personality As excesses and ungameplay founded as the PMV sequences in Wing Commandar M and all lock they give the player a face to clientify with, and maybe even an emborate commonton. Destight Conflict's genetic poligonal spaceshaps often nother to maybe even the most

lass gamapley and disn rol mer en otherwise fensive Devklight Confli

hyperimaginative. In the end, the gemeplay is merely exploding polygons, and whether it's the enemy or you blowing up seems totally.

nconsequentel Rating: \*\*

#### Disney's Hercules Publisher: Virgin Interactive Developer: Disney Interactive/Eurocom

Games based on moves generally aren't the best. There have been a few exceptions to this rule, notably Accilem's

Alien Triogy and, most recently, Rare's Guideneye tipe review this issue). Disney's Harcules is, sadly, not one of

Disray's Hercales is, sadly, not one of those exceptions.

The game follows the plot of the move fairly closely, with Hercales learning how to become a true hero in order to return to Mt. Olympus as a god However, the game also follows the style

contains from the Original sea agod However, the game also follows the style set out by every single side-scrope amon title of the 16-bit en, so much so in fact that it feeb like a Genesis game walk from lish to right, hadden walk from lish or right, hadden creasures and other mythological creasures with a sword it's all been done before, and done before as well

done before, and done better as well.

There are a few concessions to 3 bit sameolay that keep Disney's



Disney's Hercales is like e lot o movie-licensed games — It follows the movie, and it's bad

Hercules from completely sinking Some depth of field is employed in many of the levels, slowing Hercules for move site, and out of the screen. This has been done before, mostly by Sega in this like? There or thy Desires and Assa, but in Hercules in only occurs in specific, marked areas. While an interesting feature in scalably does like for

However, as one might expect from a Distrey title, the arimation is superb, other rising to a level of quality comparable to the move on which it's based. The moture of sprites and polygons is practically exemities.

sameolay

#### PlayStation

There's sometimag to be said for researcing soons from the movie on your TV screen, and fighting the Hydra or Opciops is sure to pieces the younger audience this game (and the movie) is amed at. However, there's also sometiming to be add for making games that push forward, not fall back Ratings: 4%.

Felony 11-79 Publisher: Ascii Developer: Climax

tepanese developer Climax is mostly known for its action/RPGs @andstalker. Dark Savior) This is its first attempt at



Lot of space in this mail, huh? Felony 11-79 is a great game that's over too fast

something different. Felony 11-79 Rhown as Rurabout in Japan, a title change about on per with the time Sony

renamed Sideworder as Brgory Dead 6 of course, everyone lanses an discuse, impenitable title helps selfs games in the U.S.) is a roong game with some adventure game elements, and though it's a smeshing good time white it lists

— Israelly — dis over much too quickly fine of the lew con-board games with a lackstony Felony T-1-79 gives the player the job of making down a college of ancest artificits while running it breatment growth through three stages. Downson, set in L.A.'s Christinest, Seado, set in the Shorain distinct of Jacon, and finally, Pars. The game begrow what a selection of four cars, with mich companing on the player's did it the loke depending on the player's did it the loke. is to use the vehicle to run all over each stage, someomes gathering nems (by smading into them), someomes just reaching a certain goal in a certain all the while avoiding the police and in general causing as much mayhem as

possible

If this sounds fair, well, it is. The commot is bit touchly lending support would have helped, but still above par, and there are enough alternate routes through each stage—anouts the routes through each stage—anouts the routes through an abendoned tunnel, strongth mobilities and enough staff to small his leep any fast of chase perint page; this rise and enough staff to small his leep any fast of chase perint page; this rise are from chase perint page; this rise small for first perint page; the rise size of the properties of the first perint page.

#### PlayStation

## **Grand Finale**

Final Fantasy VII
Publisher: SCEA
Developer: Square

her all the triple that's surrounded Fine!

Annaby Will, it would seem nearly impossible for any more garter to he up to the expectations—
expectedly given to the state of terration. Evidence of Fine of the USIs, a true magatim cipus that pushed the controle RRO both as firs as a round go infreder. Squarris dramatic break with instrancio sprouted from the developer's desert to these river services.

practical impossibility within a cart-law growing Now, with an English transistion evelable, the game can be evaluated for its impact as a dramatic One of the most eagerly awaited titles for PlayStation finally arrives

So did Square succeed? Well, yes There are a few mad strumbles, but as with any trile whose level of ambition is this high, thic's hardly surprising — and, ultimately makes little difference. The prophics are bor note the best Playdopson.

The graphics are bor none the box PlaySubson has ever seen The seamless use of PMV with parametered 50 bedgeounds and polygonal 30 othersches tables the research and songselling of the console PRVs to the next level while presented in complete 30, the battle system plays roughly the same as previous FF entires, using a quote reddine engine while adding pears matrice and limit should be regime while adding pears matrice and limit should be proper while adding pears matrice and limit should be proper while adding pears matrices and limit should be peared to the pears while adding pears matrices and limit should be peared to the pear the pears while adding pears matrices and limit should be peared to the pears of the pears of

stema and time-deviating the deviations to cast spelling, summon moraters, and perform a variety of attacks. The special effects during bedies are breathsalong, although watching the same effects over and over effects over and over and over and over and over the stema over and over and over the stema over and over the stema over and over the services over and over the stema over stema over the stema over stema ov

can get a bit trying by the end However, an RPG lives or dies by its characters and story Final Fanciety VII is not a lightheened tale

Following in the tradition of previous entries in the series which have always dealt with more. d es

ill the characters may beere, but only three can

heavy-handed themes, the storyline comes away fresh, dealing with "real reases" like environmental deviatation, government orimption, the moskty of genetic engineering, dual

personalities, even prostitution indiced, at times the characters endure so much, it senously risks thousing the player into depression, tet, while FFAV may take a bit 10 get going, as in every citizy in the sense, moments of high melodiarian are blended with scenses of sheer.

poetry and vision - it truly is beoutiful.

The early off riske is in the resilience FIVED against as opposed to the joint effort to review japan, as opposed to the joint effort to review japan, as opposed to the joint effort to review japan, and the Rodollog of the now distinct of the production of the production of the resilience of the res

for the character, we found the stereotype grating However, in the end, despite the odd misfired moment or qurit in translation, Final Fantacy VII is a game not to be missed. The dream is red, and the bar has been permanently resid for corsola (87%).

It's a hell of a ride Don't miss this one Rating: \*\*\*\*



#### PlayStation

(they just scream and run away), but in general, there's a rinty amount of potential damage to be caused to the environment.

The funders is, then an only three stages, and once a playing either he has a disagn, and once a playing eith the hasp, and once a playing eith map, at it cause in house. The paped firm much either, as the buckstory's ending is quick and commender first — recognish suppressing power Camus is bown for IPTOS. There are 22 "Trichedor" care to lind in vanious ways, but had downfir maily selemed the methy vicine much lead furnation—soury relevy 1-7-7 (pringin) — muchade who are many stages. It would have easily selemed for stears, As it is, it is short-housed in the control of the control

Rating: \*\*\*

#### The Lost World: Jurassic Park Publisher: Electronic Arts Developer: DreamWorks

One would think that if any developer could buck the trend of lousy games based on move licenses, it would be one with the apparent resources of DreamWorks, Well, sad to say you'd be

wrong. This game does have a couple of things going for it. The overall concept — beginning the game as a lowly congr. then successively becoming a human, a raptor, a Frex, and a human again — has posterials the ammards, and indeed, the spapines overall, and indeed, the spapines overall, are incredite, and the full-surround soundward adds a list of altimosphere.



Being a dinosaur could have made a great game, but The Lost World: Jurassic Park blows it

however, when looked as a game (and not an opportunity to late a lot of peetly screen-should. The look Hondi peetly much blooks. It to begin work, despite the fally polygonal characters and environment; gamesfay should acknow to the same ado scratiling action challenges we've some a thousand sines before, berry clathe is noticed out, from configuring platforms to jumping over bodders — all that's missing is an acci world. Second, as a side scrolling actions game to be level disease; as a best with the level disease; as a best multiple parts, come of which lead to no nocease y cover-up, but some of which leads to no ressor as it all the game subjects players to nonadoly demanding publicate from or resource of the commoding publicate you may be about 300 miles of the commoding publicate and present of publications amplify street, or backtrack. Sail other street, and publicate the control publication with the big purpose of the commoding publication and the big purpose of the commoding publication and the sail which is the sail publication and the publication and the sail publication

in more functions. This is exposally amoying given that the gime falls into the same trap as a lot of ownly promp, boostfully well-animated action titles the control is a certain number of leyfurness to a certain number of leyfurness to accuse every firm it jumps, every time it jumps, every time it jumps, every time it jumps, every time it smooth, but we'll trade mone-quality amentation for worldskill control any day

Overall, The Lost World makes you would whom Departments is using bir game testers, or even if steries work there as all the graphics may be a step ahood, but the all-important generally on only be described by one word: primitive Ratings: \*\*

## Machine Hunter Publisher: MGM Interactive Developer: Eurocom

If plagnorsm is the most snorse form of fatting, then dremlin interactive must be feeling pretty honored. MCM Interactive's Machine Hunter's pretty much a bilistic rothen copy of Gremlin's Loaded series. Actually, the phrace that immediately springs to misd in "po-off"—and Gremlin's games overn't the only ones the phrase can be unified to.

Anothio is to both Psychiation and PC, Astechne Harter follows the Lorder PC, Astechne Harter follows the Lorder Bulgarite to every line and dot. Players were the action from an all-box Grainniss were the action from an all-box Grainniss contriber ridden where, blind whether moves, and splatter blood across every surface. Developer fascorum has cert faithfully recreated the mazzle floot that award garriers when Looded first the shakes, although in a major departure from the formulae, it has given the

In all fairness, there are a couple of other differences. First, where Loaded gave a choice of colorful (if psychopathic) characters, Machine

Hunter only has one. The second, vaguely possive difference is that. \$55 Eurocom has thrown in the ability to sike over my disable measures encountrared in the garne. Players the have left corned of the measures ye including all weapons, and this becomes an integral pain of the garner's strategy, as it's necessary to keop finding and using new machines: to study allive using new machines: to study allive.



Shoot everything that moves in Machine Hunter, the poorest of the Loaded clones

The game's controls— and we can the term loosely—are set up much like inholosom or Simush InV-Each of the four buttons free on the appropriate deraction, although it's much hander to achieve degocrade with two buttons draw with a popicit. And, tuth the told, show standard derections like left or lonward analytic development things to accomplish here either. The control response is separately hand the PC venions.

incidentally Level diseast is ptifully standard, with narrow comidors opening into enersy-infissed open areas. It acording in innor bust of originally, the levels are multibrited — a new best to the subgrame. However, the cambonities overpower any differences, and on the whole, the game is fittle more then a poodly assectation of port.

Rating: \*

#### Raystorm Publisher: Working Designs Developer: Taito

Working Designs has been lanear for buying the nights to appares 8746, "Amenication", them during translation, and releasing them Stateside, Over the last four years, the company has taken some chances and unaversed more than a live gens the causer seles, Diagon Facrost Listing funday, Working Designs has been branching out a bit, releasing the scasses years long Storm land.

and creating a new release label, Spaz, for more action-oriented titles.

And, once again, Working Designs has come up with a witner with Tatlo's arcide shooter Rigistom For the casu same, this may not mean very much. but for the de-hard shooter lover, this is good neers incloud. Callegilary should be immediately brainist for anyone who played any accele game in the mist-flox, within top-down exchall scrolling and enemies both on the ground and in the air, this game owes a happ dich to X-brouze, and lake Namoro's "No update of that \$100, Mayodom is, Mayodom is, Mayodom is, Constituting Parmayl of polygons.



The bosses in Raystorm come up with an impressive array o ways to try to kill you

 However, it also has a heavy arime influence, mainly in the form of power Macross-like mech bosses that will be sure to set the fan boy contingent

directing.
Control is sport on, as a shooter should be, and the game moves at a nail-biting pace. Payers choose from two steps, one with bullets and one with lasers, although it really doesn't make a

difference during actual gameplay. For lazy pilots, the ground attack can be set on auto.

Asystorm's graphics are where the game really excels, though The developers at Tatio have pulled out every

special effect from the PlayStation graphics library, from transparency to light sourcing, and the overall effect is quite stamming. In the end, Raystorm is a great little

shocer and offers a nice batch discrsion from more complex games. There's no escaping the debt this game owes to Xenous — and just about every other shooter since — but if the proof of a modern shooter is in its design, then

Raystorm is well-proven indeed.
Rating: \*\*\*

#### Syndicate Wars Publisher: Electronic Arts Developer: Bullfrog

By the time Syndicate Wars was released for the PC, the restime strategy gene the original syndicate helped define had become very crowded. Where the original flourished as a broath of fresh air, the follow-up was overlooked by many because of a flood of tough new competions. The same, however, has been your another.

#### PlayStation

chance on PlayStation, where there are fewer such titles to compete with. While the strategy element is the most obvious there that sets it again from other PlayStation titles, the game features some unique, well-designed graphics, its complex 3D environments are a welcome contrast to the far less detailed environments in most other console titles. Whether it's huge buildings collapsing from collateral battle damage, or a grant movie screen playing cartoons while absolute



title stylistic details that really make it stand out.

This dark style cames over into nameday where players are myen mission objectives and the freedom to accomplish them as they wish. Players drawing as little attention as possible, or simply blast their way through entire cities, leveling everything and everyone in their paths, it is exactly this type of freedom that makes a game

However, the fact that the game

was originally designed for a PC becomes painfully evident in the control. The basic interface was desented for a keyboard and mouse and though Builfrog has done an admirable job adapting the interface to work with the PlayStation controller, it just never feels right and often becomes frustrating. In the end, what eniovable title whose unfortunate control gets in the way of smooth

Rating: \* \* \*

#### Saturn Albert Odyssey: Legend of Eldean **Publisher: Working Designs**

camego ensues below, it's the game's

Developer: Sunsoft Since the advert and demine of the iffated Sega CD system, Working Designs. has consistently struck a lovelist chord in the hearts of Japanese RPG enthusiasts. Having ported over some of the lessesknown, but quality titles in the genre, Working Designs has built up a solid fan base among Sega system owners. This flercely loyal fan support upheld the company through some of its more mediocre port overs like Vav and Shrings Wisdom, and hopefully this support world wane with the release of Albert



The title originally received a lukewarm response from the press and gamers when it was released in Japan, due to the sluggish load times during battles and the game's overall mediocre graphics, it seems little has changed in Working Designs' treatment of the game. With the exception of a tighter, more involving storyline, Albert Ochssey appears a half-baked mix of 16-bit and 32-bit worlds. The exactics in and around towns and mezes look very sharp and are mostly distailed, but they come provides close to matching up with what we've seen in similar 32-bit RPGs like Sharing the Holy Ark. When traveling the

#### Saturn

## Out of the Park

World Series Baseball '98 Developer: Sesa of Japan

very once in a while a stame comes along that very crice in a write a game, so done This elec-recisiones the way a certain genre is done This eleceroup includes Goom Gameday '97, Tomb Barder Mann Sonic, and now World Series Baseball 198, which changes the rules of videosame baseball.

Nearly 20% of all the action in a beselved storre takes. place between the pricher and the batter, yet every baseball adeograms over made has somehow managed to make this dassic battle a simplicisic unexciting confrontation WS8 T/6 has taken all of the strategic elements of patching and https: and made the best patched batter practiscs ever. The strike zone has been divided into four zones, and each better is either strong or weak in each. The batter tries to axess the type of pitch and the location, while the pitcher must change speeds, move peches around, and petch away from the hitter's power. Getting to know each pitcher and

Sega's finely tuned baseball engine just gets better

alive, sust add to the realistic confrontation If the pinches/batter match-up were the only advancement, it would be enough to warrant five stars, but WSB 198 closs much, much more. The fielding control is orcellent, and it really matters how good a fielder you have in the same. Outlieklers with poor arms tend to throw of target, while guys like say Buhner, with his cannon arm, zos the ball right to the intended base. Managing the game is also important because if a pitcher tires, he'll throw grape/ruts to everyone he faces. Other features like rain dislays, injuries, and errors all add to making WSB '96' the

best baseball game ever WSB '98 rsn't perfect. It's missing a trade player feature. and an instant replay but the rest of the game is so solid it is easy to formyr. Clearly, this is the new standard for beseball games, and there are no current games that even come close. Saturn may not have much, but it's got baseball



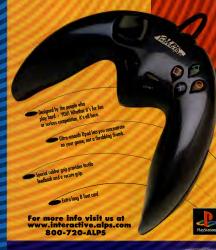


ld Series '98 has everything you could ever ask for in a bas



## POWER and PERFORMANICE

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#### Cation

world map or in the freet of bettle, the game seams to fail apart. The mage: softs and combat engine are not just slow and unimpressive, but downlight soft and unimpressive, but downlight punish to look at Fertunately, the sound offsets and soundtrack seem to hold up under a but of the game's other weakersease, but they fail to make Abort Objessy stand out, whatborner but the weakers beaven onlithed.

up the storyline and text to make the game seem more valuable and made a valuate effort to make the most of a valuate effort to make the most of a registrately forgettable game Some hardcore RPG enhances should find enough to like about Albert Onlystey to inspire a full playlinough white waters for WDS translate of Larner the Silver Sar Story later this year, but best advice is to sit this one cut.

#### Rating: \*\*

#### Sky Target Publisher: Sega Developer: Sega

Even with the Model 2 board backing it in the arcides, Siy Yanget, a shooter partitioned allow the classics. Afterbursor, missed the merk with its simplistic graining Unifortunately, the conversion to Saturn has not been land to whet could, in a garnacus moment, only be considered advanter destinations.

What had been reasonably docent graphics in the acade have been transformed into a classic example of gramp presisted, unotifischierly treased souring prophics. The possube transparent souring prophics to be missiles are particularly enoting, in that they have



Giving retro-style gaming a bad name, Sky Target misses its target with ugly graphics and simplistic gameplay

absolutely no resemblance to actual smoke, and the mainmash of enhance trais do a period pilo of colouring the player's vacon Titere have been plenty of everyties of superior graphics on the Saturum when time and care were taken with them, but it's chough no such eight were into the Six bearer consertion.

Aside from the feet that the game looks abrooks, SV Tragert's prompting ladio the capturers of even a tradecore levelat horster. The plane selected by the player (rether on T-MSLF-15SAMTE, F-MSLG-15SAMTE, F

and come on, even Alterburner could do barrel rolls. As it startics, Sty Yarget backs even the most rudimentary startings: dement, since the game desert it even require judicious use of ammunition. More up, down, right, left, and keep the missis and casting gain butters pushed down—that the essence of Sty Yarget.

In what can only be considered the dark ages for starm, Sagia has recorded to expeny the board of its aroad barned for farme conside consensions, staked, the start that so tilt is consideration was given to the quality of the conversion in Say. Toget's most disturbing aspect. Happeluly, the explanation for this amon'dly is that all the risk latent at Segar is tusy working on parms for the fortheroring aspects.

Rating: \*

## Betrayal in Antara

Developer: Sierra

When Betayer at Krondor was released in 1994, it was halled as RPG of the year by many. Three years later, however, the only new features in this peaulos sequel are a new procession in the site and a

"different" aniverse.
The world of Antars is very much a light-less version of Middomia (the world in Ahrondor). The resemblances the don't end divere, however, there's a stati-wielding, blond whence (Ahren, bor replace Mondor). Aboy (a, stight) within rice of the Montain, replacing the Tsurani, a chapter-based activate world whose in with bened combine violation. The

let goes on and on, Navigation hear's changed from Xondor — movement still feels like an extremely perky version of Doom Most of the game takes takes in this week, which is unfortunate because the others are very for apart. Moving between the villages and closes can take as long as fern



edor or Betrayal in Anta can't tell either

HE PUT THE GUTS IN GLOR



imágine (Ga) par could do with collings of coll revolutionary our coller-- the

and common the playin, role-playing the common the Grid will agaze the Grid will agaze to no end.

Now you say the strong our best gaming the strong. Rick back Switch law is.

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ess posmillities.

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necessary. This presents a sometimes functioning through any consistency of only being side to dry being side to further the consistency of only being side to wate one building a day before you party ages to other of low another for all of mose you. In past list, however, Anton sail drows you an excellent game, and Annes succeeds, it is the student of Boom # Mot too much have been added, but a gave game like chroder's destruit need to menty new features. Philhaps 7th Level's feature to discontinuous design fravers that any official production of the size of the size fravers of the level features. Philhaps 7th Level's feature to discontinuous design fravers that any official production of the size of the s

## Kickoff '97 Publisher: Maxis Developer: Anco

room the very start, accord on pictor? "Signific his more than gain gain for any sports that. The programs are very sports that he programs are very sports that. The programs are very sports that he programs a resident for the very sport that the program is a resident for the common cargins show the account smoothly and your the player an accusate some of coals in many soccer tises, the payers are too larger in proceed that the players are the lower of the common sports and the players are programs of the common sports and the players are programs of the common sports and the players are programs. The players are the size of total. The second interest the size does not forth.

The second thing the tide does no is provide elegant control. PC games often assign a separate button for each individual actors, giving players options but often making task paced play.



## surprising success, Klokoff '97 jets almost everything right for

cumbersome However, taking is our from console-based titles, Richoff '97 uses only two power buttors, one for shocting and one for passing. These two buttors can be combined in several ways to produce a wide army of actions. This simple but highly mature control gaves players a better, more inspect feet for the game.

better, more regular see for the game, included in the title are enough options to satisfy even the most devoted soccer fan. Leegues can be set up to play with up to 22 teams from several divisions, or dream teams can be created from the required up.

Kickett does have some minor level, however, the biggest one barring the passing interface. The possing control is accessable but not as smooth is doffer tables have proven soccer possing can be Another problems in the long loading sine between the game and the options screen. Even on a sist PC there are agrifulant possion when players move book and forth between the two. Other than these minor complaints, the game is one of the most enjoyable soccor trides to one of the most enjoyable soccor trides to

Rating: \*\*\*\*

## Meat Puppet Publisher: Playmates Interactive

Developen Kronos

At first glonce, Meat Pupper fails squarely within the PC action subgener that was all but stander, dant then soon seallowed whole by Origin's Chasader sense. The game is sprite-based, sometic societ, one part platform thallanges, one part puzzle solving the parts shock-everything that moves.

blow-up-werepthing that-doesn't voilence. It's not a bad formula, yet Meer it's not a bad formula, yet Meer the control, which lacks the crapness and response of, well, Origin's Crusadire series SIII, the system is at loast functional, and desprise the odd annovang movement, with some

annoying movement, with some proctics, most players shouldn't have too difficult a time novigiting the game's world or taking on its vanous dangers. Which is where, honestly, Meat

Papper distinguishes staff in its off thewall character design and nessed leven auch tumor. The graphics are pure post-opherapart in design— mirris delayder. The design— the design— the dependence of the design of the design of the start you got the design— murinified at 800x80 in 16 bits color if there's enough horse which is fairly well-imaginate own if it's nowly tool through precedence our consory, so offered one tumor in marking portly seeded, and in medicine device less been implemed in the color, of all places fairly well for these when to be in-

how it got there), to keep her obedient



Meat Pupper's Lotos is about do something very nasty with

mission has a fine time limit faithough there's time for fuller exploration once each mission is accomplished, forcing the player like Lotos, to keep moving and do some pretty questionable things in order to survive.

This is arguably one of the nastest process of come slong in a while, and it starts off early to the or inscens in the player must push in fue, course, solquite-aims bearn creature across no less than three rooms, with the highless creanum soseming and begging for its left which time. As if the wears but enough, upon sust their paties with thing for information before finally document it more bis moutant landed.

to littl in Yock

Meat Pupper is the sort of game
that keeps you playing just to see what
happens next, so it's probably best not
to give away anything else. With bester
control, it would have rested a star.

to give away anything else With better control, it would have rated a star higher, no question. As it is, the gamesky is just solid enough to let you leep coving back.

Ratings: \*\*\*

HE PUT THE DEATH IN DESTRUCTION...





PC

# Magnifique

Activision brings another superb adventure from





Backgrounds are made up of texture-mapped polygons. The quality is almost equal to Ecstetice 2's prerendered graphics

### Twinsen's Odyssey Publisher: Activision Developer: Adeline

a the sequel to the understand action/graphic downlars Related to the Understand Adventure Related to the Big Adventure. Twention's Colyssey talks the then resolutionary graphics of the original and upgrades them to a fully 30 world. The isometim, fixed twee loaning in the first Lind and Adventure is only used indices. Outdoors

the camera is fully adjustable, moving along with Tamera as he runs, jumps, fires, and sposes through some simply beautiful locales. The result is a game very similar to another French classic, Alone

But where Alone in the Dark was enone or less) realistically

Moting a duna buggy is one of the many odd things that pops up i Winsen's world, and that's what makes the game just plain fun

sency Surreal and consumers and creatures. One can encounter land connents with a highly aroustee cow, as sisphart mentor, a pebble shooting cacha, and a leaging cach, to name a few The game begins in Thirtiesi's frometown of Lucin-Boug, and

presented, Twoser's

Odyssey retains this

continues to a desert stand, an atien homeworld, and all the parts in behaveon. Almost everything about the game looks and feets allly smooth. Every others in the game is represented in SD, Ocuraud shadod polygons, and the game animates at a fiame not even higher than the original, no market how many objects are on the screen is conce And unite most games, where the main character gots most of the transes of animation, at the inhabitants and

monsters move flawlessly

The movement system is very strange, but wery efficient and easy to get used to Each of the four movement modes (scrmal, sports, aggressive, discreed) is used throughout the game, and switching bedween them is a simple as pressing a buston. The game controls fine with the keyboard, but a sameaged makes repression a breeze.

The garnet's law points are few and far between. The most nonceptile downside is the randomed cut scenes that dut the garne. Why Adeline elected to use them instead of stocing with the main gaphics engine is beyond us.— the few nonrendered cut scenes look worlds better than the graining skyl madeed mores.

Another annoyance is the viciol acting fivery word of text in the game is also presented in full speech, and while the cartion style viciols are certainly a movel touch, unfortunetely most of them also get misting to lesion to after a while bon't let this stop you, knower! You live actions because games, Twinsen's Odyssey should be in your

Rating: \*\*\*

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PC

# Leviathan

Jane's Combat Simulations proves once again it's at the top of the sim heap

## 688(I) Hunter/Killer

lisher: Jane's Combat Simulations eloper: Sonalysts

he most complex sub-sim yet, 6850 Aunten/Giller, with its countries the most complex sub-settlyer, assay real-solution, who displays, knobs, and decideds to twiddle, is not for the casual fan of Hunri for Red October 688% simulates operations aboard an improved Los Angeles Class

submarrie, a sophisticated nuclear attack sub. As the captain, players are called on to locate and sark enemy vessels, protect friendles, deliver and pick up SEAL teems on covert missions, and even make cruse missle strikes.

None of that is as straightforward as a would be in a set falter or helicopter sim. An attack sub spends most of its time underwater, where radar and visual systems don't work. Locating and tracking enemies is accomplished using (most/M passive listerang devices, and 6890) simulates all this in very convincing detail, offering five different soner systems to work with The learning curve involved with using passive sonar to locate a contact, identify it, estimate its speed, and build a firing solution for torpedoes or Harpoon and

ship missies is pretty steep. In fact, 4880 was developed by Sonslarps, one of the companies than helped design the real-life sonar systems used by the U.S. Navy aboard real 688 attack subs, and the deagners' intricate knowledge of the subject and commitment to realism show Although no one at Next Generation has ever served aboard a sub, as near as we can rell, the expenence here is as restuto

as it can be without getting the player wet The game allows players to assign computer-controlled crew members to some of the more daunting tasks, but despite the complexity of the game, for the sim rut, the real fun of 6880 lies in handling everything yourself it takes time and patience to turn a jumble of sonar data into a target your missile boot is finally sent to the bottom. As we've come to expect from Jane's Combat Simulations, an excellent manual and a senes of in depth tutorials make the learning process as painless as possible.

However, if you're the sort who's intimidated by a game that comes with and needs - a 200-page manual, you'll want to give this one a miss, that if We got a taste for the complex aids of military arms, you'll love 6880.

## \*\*\*\*



## Macintosh ...

#### Circle of Blood Publisher: Virgin Interactive Entertainment Developer: Revolution Software

Mac are few and far between, so we should be grateful that Whan risk risks to publish a Mac version of this game Gnown in the European market as NG 24), and in a timely fashion, too.



olay is and the Interface is very un-Mec-lika

However, despite the ambitious stongine and arrimation frome done by refugees from Don Bluth's studio), we matt have felt grateful for a month's delay given the poor quality of the port.

Circle of Allood's besic ideas are sound, though the interface and adventure point and click, corrolets with an invertiony to mensee and different scores for each action your character, George, can perform. George is involved in chasing after an international consorracy, soun off from the remnents of the mysterous Knights Termolar is coursely that balass him to a

number of exotic locales across Europe. Characters are nicely designed sortes, even though they do seem like casteways cobbed from Operon's Lair. Perhaps the only impostion is in the backgrounds As the scene pans, levels of the background scroll at different rates for some simulation of depth

However, the actual game expenence is a trying one installation is distinctly un-Mac-life and arduous, and the game only installs on the same pertition of the hard drive that houses. the System Folder Also, Circle of Blood conflicts with many standard extensions, and plays slowly even on a 200NHz Mac. That cost it a star An unrelated problem, but one that can't

be rangred as the atmooras voice acting George often seems just this Bussian accents are embarrassing All in all, this is a nice try, but it could have

Rating: \*\*\*

## Gundam 0079: The War for Earth Publisher: Bandai Digital

Entertainment Developer: Presto Studios

may or may not be the Hoty Grail of game developers, but that doesn't stop them from trying This is especially true of "the Acclaim of the East," Banday, who must have figured, "How about an interactive anime movie?"



interesting than the game on top

Set in the well-developed Gundan smarrer, Gunden (9029 others wellrendered, noninteractive scenes, which advance the plot (and take up around 60% of the "playing time"), while gameplay comes along at crucial junctions, during which players get a Gundam, usually in battle. The structure should be familiar to anyone who's played any Winz Commender same but the only way to play is to save compulsively at the beaming of each Suit mission teames can't be saved during the out spenes), since correct is touchy, decisions have to be made at the absolute correct split second, and it's never quite clear what went wrong it can be quite frustrating, to say the least in this, it's truly the heir to early trial and error, "What do you want to do

On the flip side, Gundam (6079) does tell a good story, and faithfully enough for anime fans. The recriering is, impressive and smooth, and some sequences make good use of QuickTime VR. even if only in small windows on the screen If would be a better game if these elements were bottor into grated into the main story, but this seems to be the best one can do given the current state of the technologies

now, player?" experiments in

interactivity

Gundem (0079 is certainly not for the action gamer, nor for the adventurer technologies, but serves best as a new experience for fans of the existing

Rating: \*\*

## Arcade

#### Rampage World Tour Publisher: Williams Entertainment Developer: Game Refuse

Getting into the swing of the current nostalea for retro games. Williams has brought back to the arcades another of its "classics," Rempage. The updated Rampage World Your is faster, has more levels, and is better logions, but desorte all this, still doesn't out much of a dent

in the memory of the original one nal Remosee was a fun, easy-tonick-up arrade game with a warked sense of humor. Players began by

look-alike, or a Godzilla-type circo, and moved right to attacking oftes across the continent by jumping, counting, kicking, and jumping on them, eating the inhabitants, and finding cool powerups or nesty little traps. It was, in a word, a blast, and an updated remake with gant critters wading through polygonal 3D cities, smashing everything in sight, should have been a netural

rations a east weeker! a Kine-Kone-

Except that didn't seem to occur instead, almost everything in Rampage World Four is the same as in the original, except it costs a little more to

play and arrhome enemies have an easer time straking the player. Yes, the graphics are better, but the whole game is still 20 and sonte-based - glossy. "Daymetion" scribes in the style of

Primal Riggs, rather then cartoony, handdrawn ones, sure, but 20 sprites all the same Granted since earneplay is exactly the same as the original, it could be argued that the graphics aren't as improved looks, it's far from being revolutionary or even on par with

The only real improvement is that there are a lot more levels. Flowever, even this seems to have a vaguely

cyclical overtone to it, since lots of levels rarely mean much to the arcade experience - come on how meny people actually saw every level of the original, anyway? The reason would seem to be that since Rampage World Tour is destined for eventual console conversion, it was made lareer now to save time later for getting it on the shelves by Christmas

Rampage World Tour seems aimed at satisfying samers' yearning for pest titles like Space invaders, or Pac-Men accomplish is to make gamers yearn for the onerel more than ever

Rating: \*\*

Arcade

# **Dead Men Walking**

## House of the Dead Publisher: Sega Developer: Sega AM1

ure, it's yet another Sega light-gun shooter for one or two players, but House of the Dead plays a couple of cards differently from the standard shooter For one thing, unlike most lightgun games, players make their way through using a network of paths, opening different branches by alone would set the game apart, but the entire search is part of an "X-files"-style detective story mastermind, Cunen, behind it all.

the piethors of bad guys that attack you are eye-catching and often effectively creepy Zombies, attack in their own unique ways, sometimes with unison. While the most effective method of dispetching the undead - in begang with the tradition of George Romero zombie movies - is to shoot at the head, players with enough proficiency to allow a little fooling around may find it irresistable to begin by punching three of four holes through



can slow down enough to pay atten

The last of the Model 2 light-gun games is a bloody good time

And there sure is a lot of blood and was, much more than we've come to expect from a Seas stame. Indeed, some zombes can be shot repeatedly in the face, chunks blowing off, while they continue to attack.

graphically House of the Deed is an excellent Model 2. endeavor, and at first glance, it. game The obligatory dark graveward scenes and haunted undead enemies get Sega's professionally deen-fast-

Nearly everything in the same environment can be shot. and replay value is good because of the multitude of paths, shown at each level's end on a map Some arcades overonce this same, which may out a few olivers off, but it's Overall, this is an excellent to on the light-sun sents - a

with boss characters getting the



The politically correct "Stunner" gun is nowe found in House of the Dead — It's gore galore



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and worst reputation of all time? Visit www.videogamers. com to cast your vote. THUR 2 LAPANESE FOR CAMERS

POLL: WORST GAME

What game system had the

worst launch, worst games,

SYSTEM EVER

SPORTS AND WARGAMES

It's death, destruction, and baseball at SaturnWorld this month, as we continue our Survival Japanese for Gamers feature.

PPC FYTRAVACANZA

How will Nintendo beat the cartridge format with RPGs? What is Nintendo doing to pull itself up from the Sony coune (and the loss of Enix and Square)? The full report on N64 and 64DD RPGs only at N64 com

INSIDE CAPCOM Ever wonder what goes on inside one of gaming's most well-known developers? Tag along with Ultra GamePlayers Online as we take you behind the scenes at Capcom's US

headquarters. WFD 8 SUPER CODE BUIDDHA DAYI

> PSXPower's very own Code Buddha answers 25 of your burning code questions.

THUR 9

SEGA PALACE CHAT Log into the SaturnWorld Palace

and talk with Sega's game selec-Œ tion team. Find out what they have to go through before a game gets brought to the States.

FRI 10 MIDWAY: A DREAM COME TRUE?

Midway originally appeared to be Nintendo's best third-party developer, but the company has put out some serious crap. How is the company intending to prove it's really a dream come true for N64? N64.com takes a look at Mace, SF Rush, MK Mythologies and more

FRI 10 DESIGN OUR LOGO CONTEST Design a new logo for The Home of Virtua Fighter, and win

neat stuff like videos, keychains, t-shirts, etc.! **MON 13** RACING GAME

EXTRAVAGANZA Join Ultra Game Players Online ULTRA as we sort out the best from the rest in the next-gen racing game pack

FRI 17 COMPANY PROFILE: KONAMI

Konami appears to be taking the lead in third-party support. In fact. Konami has become a N64 powerhouse, N64.com takes a thorough look at what made the

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rery day, one of the seven sites in the Imagine Games Network hosts a special event. These include interviews, chat forums, downloads and extra features. And they're all absolutely free.

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and game profiles abound. WED 15

Konami turn around. Interviews EFATURE: METAL GEAR

Konami's revolutionary espionage game is only a few months away. PSXPower will take an in-depth look at this highly anticinated game, including new pictures and

movies. Don't miss it! THUR 16 BLACK BELT FEATURE

Get the hard facts about Sega's next console system only at Saturn World A summary of known facts and the latest buzz from behind closed doors.

MON 20 BIG IN JAPAN From fighters to girlfriend sims,

Ultra Game Players Online takes ULTRA a look at the hottest games on the shelves in Japan

WFD 22 FEVIL POLL

So you've had a month to play Final Fantasy VII, but was it everything you thought it would be? If not, what could've been done better? PSXPower wants to know in this special poll.

THUR 23 SCARY GAMES It's almost Halloween, and

SaturnWorld gives you the top ten games guaranteed to send the shivers up your spine, give you the goosebumps, and outwilly your willies. Trick or treat! FRI 24 IS NINTENDO SERIOUS ABOUT SPORTS?

> With Griffey's imminent arrival. Nintendo will finally have its own first sports title. If Nintendo expects to keep a loyal base, quality sports games must publish on Nintendo 64. Is Nintendo relying too much on third party support from EA, Konami, and Acclaim? A full sports blowout at N64 com

MON 27 FRIGHT NIGHT The Halloween season is upon us,

and Illtra Game Players Online ULTRA unearths some of the scariest videogame experiences ever to hit the TV screen

WFD 29 TRICK OR TREAT PSXPower has five bags of

Halloween goodies to give away. Each bag will have candy cornu--51 copia of prizes, including games, peripherals, otaku, and of course, candy

THUR 30 SONIC STRATEGY GUIDE SaturnWorld brings you the

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secrets and strategies behind the first true 32-bit Sonic game, Learn the tracks and cheats, straight from the developers.

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## Write the wrongs of the game industry in Next Generation

resented Sid Meier's comments concerning gaming and 50-year-old women His comment that any game he designed that would appeal to a 50-year-old woman wouldn't be one he would play was insulting. I have over 150 games for my PC, an old C128 with more than 400 games, a Sega, and a Super NES. I play everything from Super Mario to Daggerfail.

I will, however, in the future check the software boxes more closely when I buy, With Mr. Meier's attitude, any game he designed would be one this 50-year-old woman definitely would not buy!

H. Graham Elya1@juno.com

Just goes to show that you can't sterectype hard-core gamers.

was disappointed in the factually incorrect statement in the "SIN" article (NG 32), stating: "Hipnotic ... employees include Duke Nukero 30's head level designer ..." (referring to Richard "Levelord" Grev). I have been a

Nukern games, was the head mapper on Duke 3D, and I'm now leading the map team on Duke Nultern Forever, Grey was brought in by 3D Realms halfway through Duke 3D's development to assist me in level design. The sharrward version of the game, for example, has all mans I preated, expect for one by Grey

It's a gross injustice to say that the head level designer of Duke 3D is now working at Ritual (formally Hipnotic). Grey himself said, in a level design article for PC Garnes (September 1996), "A special thanks to Allen Blum for letting me do my thing in his sandbac he is a

god among us lowly lords. I'm not sure why Ritual continues to take more credit for Duke 3D than it deserves. This happened months ago, too, when Activision, after signing Silv. announced that Ritual was composed of the core members of Duke 3D, when this is far from the case -- only Grey was a core member of the Duke 3D team, and

he was the game's secondary

mapper. The other Ritual members who left 3D Realms include two level designer on all three Duke

is will probably sell a lot of copies of Gettysburg, but H. Graham will not be on the company's list of customers

coders who worked on Asse of the Thad and Previonmank, and two nondevelopers from our advertising/manual department It's true that these two coders helped with Duke 3D, but not

nearly to the extent that they were considered core members of the Duke 30 team. Everyone here helps with projects other than their own, but this doesn't mean we're part of every project 3D Realms develops I hope at some point that

Ritual will cease this misleading affair and not pretend to be more involved with the Duke 3D project than it really was, I also hope magazine writers do a little more fact-checking, I know there's a lot of talent at Ritual, and I'm sure it'll make a quality original game with SIV Until that time, I wish the company would stop using Duke 30 as a way to get attention and

clout. It's downright sinful. Allen H. Blum III Assistant Producer and Senior Level Designer 3D Realms Entertainment

Thanks for setting the record straight. While we at Next Generation do perform extensive fact-checking, we rarely resort to checking everyone's references. interviewed at Ritual (né Hipnotic) did not tell us this out of malice. and we certainly didn't report it with the intention of perpetuating the tiresome bickering between 3D Realms and Ritual Can't we all just get along?

was reading through the Alphas section of the August issue and noticed that the previews, despite being as diplomatic and neutral as usual, seemed to have little embedded suggestions (without being too

obvious) for each of the games. The most common of which was "try and be more original." I was wondering if, in the act of previewing the same, you ever change its course of development? Do development houses look for suggestions when you go and visit them or meet them at shows? Are there any specific suggestions NG made that have been incorporated into published games?

Darshan Toolsidass darshant@concentric.net

Well, of course, young Toolsidass. Developers rush to please us We. stand astode the gaming world like a colossus

In all senousness, however -and without trying to overstate or oversimplify - Next Generation does enjoy a measure of respect in the industry, and we take this responsibility quite senously. Our editors are asked quite often, what we think of a title's progress, and we try to be helpful. It's also not uncommon for us to be contacted by a company's marketing department for our coinions on everything from branding issues to marketing campaigns to which title fits a particular game best, and even on occasion whether it's

As for specific examples, one that comes to mind is Alack Dawn from Black Ops: The game was head-and-shoulders better than its previous effort, Agrie Warrior, vet early versions were missing the excellent 3D exclosions that were Agale Warrior's only notable feature. Based on comments from Next Generation (and probably others) 3D explosions that were not in the design spec were added. A small detail, perhaps, but other examples would take forever to

explain, and this self-serving reply

is already longer than the letter it answers.

Hey look, it's just nice to be appreciated.

Mad your article "Mad" makes a good game?" in MO 31, but I have an addition. You can call if the "wow! factor, and here's one of my favorite examples in Fanta Fantagra M for SPES, when the group is on the floating continent, falla immobilizes your characters and celes comes swooping down. Kidla gives her a sword to M the finends. Odes says, "Power only breeds war". I wish! had never been born." Then she turns and sabbs prefat in series.

sable Keifla instead.

This is one of the very few moments in gaming that just has you staring at the screen, yet see street, were street, mouth thanging open in sheer amazement. This is the land of screen that makes you remember a gament. This is of the land of thing that proceed this game from externally occupied to sample from externally occupied to sample for magneting that proceeds the gament of the sample of the

## Brett Trost Saskatoon, Saskatchewan

The best games, FFIV certainty among them, can indeed make the player simply gr. "Now!" Some magazines even include a semisiry themed "Furi" category in their rating systems, and the idea does have a certain intuitive appeal.

To us, however, this seems

superfluoris, as this "new" effect is the end result of a game that excels in all or most, of the six elements of good game design outlined in the entitlet, and doesn't need to be a separate factor unto sach in the example crisis, the "new" comes from both escoleror character and energy, which give it is player a without enough whord to make the payer dividend enough detail of divinances and enough exhault enough whord to make the payer care.

Mel West seems to think that games (Quake, for example) today are "uncrefized." The caveman characteristics aren't enough for him and many of today's young dreamers, I like being an online caveman, it would be hard to live like a cavernan in the real world in modern times Gamers like me enter this alternate reality to enjoy the pleasures of taking on roles, such as the role of the caveman, if Neil wants to sit on a virtual park bench with his Internet girlfnend holding hands and crying he should call up Shiny or LucasArts and ask them how they think they'll make money on designing a game (interactive entertainment product) with such a scenario. Who knows, maybe one day I'll wuss out and get an Internet girlfriend of my own. In the meantime, I'll be pickin' bernes and hunting woolly mammoths I might even build a staircase to the sun out of the tusks.

## purice@mail.ltlb.com

Nobody says you CAN'T live in a cave, sir. In fact, why don't you go ahead? Hunt and gather for a living. Take life by the homs

The rest of us wusses, here curled up on our couches, cuddling our significant others, shamefully depending on our heaters and indoor plumbing, will miss you indeed.

packaging and marketing packaging and marketing was pretty solid — duffit think i'd see something so boring make entertaining reading. However, I also duffit think I could go an issue without seeing the phrase for all

time," and I was right.

Arryway, while in Rome ...
here's my list for the five worst
game packages of all time, as
experienced during my year and a
half at EB.

5) McKenzie and Co. OK, we're

marketing a game towards preteen girls, the one segment of the population that couldn't care less about games. Fine Why are the kids on the box so ugly, then? 4) Triple Paly "98, Quick moressen of cuses with cultifule

impression of every guy outside Missouri who bought a videogame when TP '98 came out: "???? Who the hell is that? Lankford? Jordan?



Queke, like meny of the best games, hes en innate "wow" factor that comes from the successful implementation of an exceptional design

That ain't Ozzle Smith, is it?" Hentigen wins 20 games on a virtual collar dweller, Puckett plays his final season, and the bandwagen Yankees win the World Senies So how did this guy end up on my baseball game?

3) T2 steering whise! Most consumers wouldn't see this problem, but we had to send a half dozen of the darm things back; it was physically impossible to get them back into the box after some reducek item! to play Monster ?ruck Madhess more "ree-list"ity"

reducek lictim' to play Adonsler "Pruck Machiess more "ree-list"]" took a out to play with. 2 Bust a Move 2.1 hope the marketing merse who had the brain waive of putting some usly. Britishi, gray-hused freak on the box with his eyelids stuck open with toothpacks got freak And, furdy us, it came out itsuusuust before.

rice and large.

1) Terry areadshaw Fantasy Footbalt. I didn't need to see Baldshaw on the cover of this orange, green, and blue box in a par of halos so tasteless they made has as so told let had more polygons than an AMS board could handle. Chron — you're pathing to fantasy goets, anny McCarthy Fantasy. Football would have sold halos as many copies.

PlayStation adapted the lewel case

standard, so we got to display it

Thanks for letting me rant.

Robb Sherwin
sherwin\_r102@
orion.crc.monroecc.edu

Bottom five lists of any kind are always fun. The only reason we didn't do one was because we couldn't stop at five.

hy are all these people complaining about the quality of arcade ports on N64? Here's a simple equation to figure out if an arcade game on a home console is going to be good:
if original\_game = suck thes port = suck

port = maybe\_ok endif Jeff Rendi

jrendl@axisnet.ne

We actually think of it this way

if (original\_game == suck)

else port = maybe\_ok; It complies better But we see what you mean.

Correction: In "Note than a pretty periodicy" (M. 2022, we mournedly indirected Suppended's pockaging as being a platfol (hing sauer. Supended's protaging as being a platfol (hing sauer. Supended's original packaging was a writer platfol (male) and a many infocum tans who was pretty for the error (thinks to the many infocum tans who was the control of the many infocum tans who was been established as the Control Mentalty and placed in cryogenic slope on the plants of Control, where he won't ever offered infocum [6 of Control, where he won't ever offered infocum [6 of Control, where he won't

fans again

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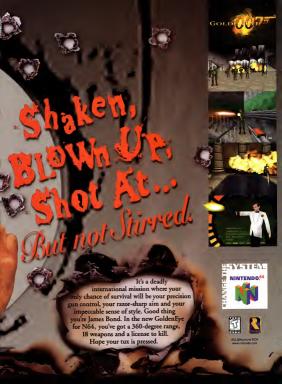
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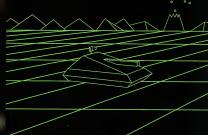


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